

**Olerup SSP<sup>®</sup> HLA-B\*27**

|                                  |                                                                      |
|----------------------------------|----------------------------------------------------------------------|
| Product number:                  | 101.521-24/04 – including <i>Taq</i> pol.                            |
| Lot number:                      | 09F                                                                  |
| Expiry date:                     | 2010-September-01                                                    |
| Number of tests:                 | 24 test – Product No. 101.521-24<br>4 tests – Product No. 101.521-04 |
| Number of wells per test:        | 24                                                                   |
| Storage - pre-aliquoted primers: | dark at -20°C                                                        |
| - PCR Master Mix:                | -20°C                                                                |

**This Product Description is only valid for Lot No. 09F.**

**CHANGES COMPARED TO THE PREVIOUS *OLERUP* SSP<sup>®</sup>  
HLA-B\*27 Lot**

The HLA-B\*27 specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup* SSP<sup>®</sup> HLA-B\*27 lot was made (Lot No. X94).

The primers of the wells detailed below have been exchanged, added or modified compared to the previous lot.

| Well | 5'-primer | 3'-primer | rationale                                |
|------|-----------|-----------|------------------------------------------|
| 2    | -         | Added     | Primer added for the B*2739 allele.      |
| 10   | -         | Added     | Primer added for the B*2741 allele.      |
| 12   | Added     | Added     | Primer pair added for the B*2743 allele. |

## PRODUCT DESCRIPTION

### HLA-B\*27 SSP subtyping

#### CONTENT

The primer set contains 5'- and 3'-primers for identifying the B\*2701 to B\*2743 alleles.

#### PLATE LAYOUT

Each test consists of 24 PCR reactions in a 24 well cut PCR plate.

|           |           |           |           |           |           |           |           |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>1</b>  | <b>2</b>  | <b>3</b>  | <b>4</b>  | <b>5</b>  | <b>6</b>  | <b>7</b>  | <b>8</b>  |
| <b>9</b>  | <b>10</b> | <b>11</b> | <b>12</b> | <b>13</b> | <b>14</b> | <b>15</b> | <b>16</b> |
| <b>17</b> | <b>18</b> | <b>19</b> | <b>20</b> | <b>21</b> | <b>22</b> | <b>23</b> | <b>24</b> |

The 24 well cut PCR plate is marked with 'HLA-B\*27' in silver/gray ink.

Well No. 1 is marked with the Lot No. '09F'.

The PCR plates are covered with a PCR-compatible foil.

**Please note:** When removing each 24 well PCR plate, make sure that the remaining plates stay covered. Use a scalpel or a similar instrument to carefully cut the foil between the plates.

#### INTERPRETATION

The interpretation of HLA-B\*27 SSP subtypings will be influenced by thirteen B\*07, three B\*08, most B\*13, sixteen B\*15, the B\*18, five B\*35, the B\*37, most B\*40, eight B\*44, the B\*47, most B\*48, four B\*51, the B\*5208, four B\*55, two B\*57, the B\*81 and the B\*82 alleles when present on the other haplotype. In addition, the Cw\*0334 allele will be amplified by primer mix 16 and the primers in vial 10 will weakly amplify the Cw\*0705 allele.

#### UNIQUELY IDENTIFIED ALLELES

All the HLA-B\*27 alleles, i.e. **B\*2701 to B\*2743**, recognized by the HLA Nomenclature Committee in July 2008<sup>1</sup> will give rise to unique amplification patterns by the primers in the HLA-B\*27 subtyping kit.

The HLA-B\*27 subtyping kit cannot distinguish the B\*270502, B\*270503 and B\*270505 to B\*270510 alleles.

<sup>1</sup>HLA-A alleles listed on the IMGT/HLA web page 2008-July-11, release 2.22.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

## RESOLUTION IN HOMO- AND HETEROZYGOTES

The 42 HLA-B\*27 alleles will give rise to 43 different amplification patterns (the B\*270504 and the B\*270502, B\*270503 and B\*270505 to B\*270510 alleles yield different amplification patterns), that can be combined in 946 homozygous and heterozygous combinations. 401 of these genotypes do not give rise to unique amplification patterns. (The different lengths of the specific PCR products in lanes 2, 12, 14, 18 to 20, 22 and 24 were not considered in these calculations.)

|          |          |          |                                                                |
|----------|----------|----------|----------------------------------------------------------------|
| +--+--++ | -+-----+ | -----++  | 2702,2729 = 2729,2739                                          |
| +--+++++ | +--+---+ | -----++  | 2707,2718 = 2718,2727                                          |
| +--+++++ | +-----++ | -----++  | 2717,2718 = 2718,2734                                          |
| +--+++++ | +-----+  | -----++  | 2705,2718 = 2710,2718 = 2718,2728 =<br>2718,2729 = 2729,2740   |
| +--+---+ | --+----- | -----+-  | 2707,2723 = 2723,2727                                          |
| +--+---+ | -----+-  | -----+-  | 2717,2723 = 2723,2734                                          |
| +--+---+ | -----+-  | -----++  | 2721,2729 = 2723,2729                                          |
| +--+---+ | -----    | -----+-  | 2705,2723 = 270504,2723                                        |
| +--+---+ | --+---+  | -----++  | 2707,2729 = 2727,2729                                          |
| +--+---+ | --+----- | -----+-  | 2701,2707 = 2701,2727                                          |
| +--+---+ | -----++  | -----++  | 2717,2729 = 2729,2734                                          |
| +--+---+ | -----+-  | -----+-  | 2701,2717 = 2701,2734                                          |
| +--+---+ | -----+   | -----++  | 2701,2729 = 2705,2729 = 270504,2729 =<br>2728,2729 = 2729,2729 |
| +--+---+ | -----    | -----+-  | 2701,2705 = 2701,270504                                        |
| +--+++++ | +--+---+ | -----++  | 2711,2718 = 2718,2720                                          |
| +--+++++ | +-----+  | -----++  | 2718,2731 = 2718,2737                                          |
| +--+++++ | +-----+  | -----++  | 2701,2718 = 2715,2718 = 2718,2721 =<br>2718,2723               |
| +--+++++ | +-----   | -----+-  | 2701,2740 = 2723,2740                                          |
| +--+++++ | --+----- | -----+-  | 2701,2733 = 2723,2733                                          |
| +--+++++ | ----+--- | -----+-  | 2701,2712 = 2712,2723                                          |
| +--+++++ | -----    | -----++  | 2701,2726 = 2723,2726                                          |
| +--+++++ | -----    | -----+-  | 2701,2708 = 2708,2723 = 2723,2742                              |
| +--+---+ | ++-----  | ----+--  | 2701,2706 = 2706,2723                                          |
| +--+---+ | +-----   | -----+-  | 2701,2720 = 2720,2723                                          |
| +--+---+ | +-----   | ----+--  | 2701,2704 = 2704,2723                                          |
| +--+---+ | +-----   | -----+-  | 2701,2715 = 2715,2723                                          |
| +--+---+ | --+----- | -+-----  | 2701,2724 = 2723,2724                                          |
| +--+---+ | --+----- | -----+-  | 2701,2711 = 2711,2723                                          |
| +--+---+ | -----    | --+---+  | 2701,2725 = 2723,2725                                          |
| +--+---+ | -----    | ---+---+ | 2701,2736 = 2723,2736                                          |
| +--+---+ | -----    | -----++  | 2701,2731 = 2723,2731 = 2723,2737                              |
| +--+---+ | -----    | -----+-  | 2701,2721 = 2701,2723 = 2721,2723 =<br>2723,2723               |
| +--+---+ | +-----+  | -----++  | 2708,2718 = 2718,2718 = 2718,2740 =<br>2718,2742               |
| -+++--+  | -----    | -----+-  | 2702,2703 = 2703,2739                                          |
| -+-+---+ | +-----   | -----+-  | 2702,2710 = 2710,2739                                          |
| -+-+---+ | -+-----  | --+---+  | 2702,2735 = 2735,2739                                          |
| -+-+---+ | -+-----  | -----+-  | 2702,2741 = 2739,2741                                          |
| -+-+---+ | --++---- | -----+-  | 2702,2743 = 2739,2743                                          |
| -+-+---+ | --+----- | -----+-  | 2702,2707 = 2702,2727 = 2707,2739 =<br>2727,2739               |

Lot No.: 09F

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|          |           |           |                                                                                    |
|----------|-----------|-----------|------------------------------------------------------------------------------------|
| -+--+--+ | ---+----  | -----+-   | 2702, 2713 = 2713, 2739                                                            |
| -+--+--+ | ----+---  | -----+-   | 2702, 2716 = 2716, 2739                                                            |
| -+--+--+ | ----+---  | -----+-   | 2702, 2717 = 2702, 2734 = 2717, 2739 =<br>2734, 2739                               |
| -+--+--+ | -----+    | -----+-   | 2702, 2719 = 2705, 2730 = 270504, 2730 =<br>2719, 2739 = 2730, 2739                |
| -+--+--+ | -----     | +-----+   | 2702, 2714 = 2714, 2739                                                            |
| -+--+--+ | -----     | -+-----   | 2702, 2732 = 2732, 2739                                                            |
| -+--+--+ | -----     | --+-----  | 2702, 2738 = 2738, 2739                                                            |
| -+--+--+ | -----     | ---+----- | 2702, 2709 = 2709, 2739                                                            |
| -+--+--+ | -----     | -----++   | 2702, 2728 = 2728, 2739                                                            |
| -+--+--+ | -----     | -----+-   | 2702, 2705 = 2702, 270504 = 2702, 2739 =<br>2705, 2739 = 270504, 2739 = 2739, 2739 |
| --++--+  | --+-----  | -----+-   | 2703, 2707 = 2703, 2727                                                            |
| --++--+  | -----+    | -----+-   | 2703, 2717 = 2703, 2734                                                            |
| --++--+  | -----     | -----+-   | 2703, 2703 = 2703, 2705 = 2703, 270504                                             |
| ---+++++ | +--+----- | -----+-   | 2707, 2740 = 2710, 2733 = 2727, 2740                                               |
| ---+++++ | +---+---  | -----+-   | 2710, 2712 = 2716, 2740                                                            |
| ---+++++ | +-----+   | -----+-   | 2717, 2740 = 2734, 2740                                                            |
| ---+++++ | +-----    | -----+-   | 2705, 2740 = 2708, 2710 = 2710, 2740                                               |
| ---+++++ | --++----- | -----+-   | 2708, 2743 = 2713, 2733                                                            |
| ---+++++ | --+-----  | -----+-   | 2707, 2712 = 2712, 2727 = 2716, 2733                                               |
| ---+++++ | --+-----  | -----++   | 2707, 2726 = 2726, 2727                                                            |
| ---+++++ | --+-----  | -----+-   | 2705, 2733 = 2707, 2708 = 2708, 2727                                               |
| ---+++++ | -----++   | -----+-   | 2712, 2717 = 2712, 2734                                                            |
| ---+++++ | -----+    | -----+-   | 2705, 2712 = 2708, 2716 = 2712, 2716                                               |
| ---+++++ | -----+    | -----++   | 2717, 2726 = 2726, 2734                                                            |
| ---+++++ | -----+    | -----+-   | 2708, 2717 = 2708, 2734                                                            |
| ---+++++ | ++-----   | --+-----  | 2704, 2735 = 2706, 2738                                                            |
| ---+++++ | ++-----   | ----+---  | 2704, 2741 = 2705, 2706 = 270504, 2706 =<br>2706, 2710                             |
| ---+++++ | +--+----- | ----+---  | 2704, 2707 = 2704, 2727                                                            |
| ---+++++ | +--+----- | -----+-   | 2705, 2720 = 270504, 2720 = 2710, 2711 =<br>2710, 2720 = 2715, 2727                |
| ---+++++ | +-----+   | ----+---  | 2704, 2717 = 2704, 2734                                                            |
| ---+++++ | +-----    | ---+----- | 2709, 2715 = 2710, 2736                                                            |
| ---+++++ | +-----    | ----+---  | 2704, 2705 = 2704, 270504 = 2704, 2710                                             |
| ---+++++ | +-----    | -----+-   | 2705, 2715 = 270504, 2715 = 2710, 2715 =<br>2710, 2721                             |
| ---+++++ | -+-----   | --+-----  | 2725, 2735 = 2725, 2741                                                            |
| ---+++++ | --+-----  | -+-----   | 2705, 2724 = 270504, 2724                                                          |
| ---+++++ | --+-----  | --+-----  | 2707, 2725 = 2711, 2738                                                            |
| ---+++++ | --+-----  | ---+----- | 2707, 2736 = 2727, 2736                                                            |
| ---+++++ | --+-----  | -----++   | 2707, 2731 = 2727, 2731                                                            |
| ---+++++ | --+-----  | -----+-   | 2705, 2711 = 270504, 2711                                                          |
| ---+++++ | -----+    | ---+----- | 2717, 2736 = 2734, 2736                                                            |
| ---+++++ | -----+    | -----++   | 2717, 2731 = 2731, 2734                                                            |
| ---+++++ | -----     | --+-----  | 2709, 2725 = 2736, 2738                                                            |
| ---+++++ | -----     | -+-----   | 2705, 2725 = 270504, 2725                                                          |
| ---+++++ | -----     | --+-----  | 2721, 2738 = 2725, 2738                                                            |
| ---+++++ | -----     | ---+----- | 2705, 2736 = 270504, 2736 = 2709, 2736                                             |
| ---+++++ | -----     | -----++   | 2705, 2731 = 270504, 2731                                                          |
| ---+++++ | -----     | -----+-   | 2705, 2721 = 270504, 2721                                                          |

Lot No.: **09F**

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|          |           |           |                                                                                 |
|----------|-----------|-----------|---------------------------------------------------------------------------------|
| ---+++-  | +++-----  | ----+--   | 2706, 2707 = 2706, 2727                                                         |
| ---+++-  | +--+----- | -----+    | 2707, 2720 = 2720, 2727                                                         |
| ---+++-  | --++----- | -----     | 2711, 2743 = 2721, 2743                                                         |
| ---+++-  | --+-----  | -+-----   | 2707, 2724 = 2711, 2732 = 2724, 2732                                            |
| ---+++-  | --+-----  | -----+    | 2711, 2727 = 2721, 2727                                                         |
| ---+++-  | --+-----  | -----     | 2707, 2711 = 2707, 2721                                                         |
| ---+---- | --+-----  | -----+    | 2707, 2742 = 2727, 2742                                                         |
| ---+---- | -----+    | -----+    | 2717, 2742 = 2734, 2742                                                         |
| ---+---- | +--+----- | -----+    | 2707, 2710 = 2710, 2727                                                         |
| ---+---- | +-----+   | -----+    | 2710, 2717 = 2710, 2734                                                         |
| ---+---- | +-----    | -----+    | 2705, 2710 = 270504, 2710 = 2710, 2710                                          |
| ---+---- | +-----    | --+-----  | 2705, 2735 = 270504, 2735 = 2735, 2738 = 2738, 2741                             |
| ---+---- | -+-----   | -----+    | 2705, 2741 = 270504, 2741                                                       |
| ---+---- | --++----- | -----+    | 2705, 2743 = 270504, 2743 = 2707, 2713 = 2713, 2727 = 2713, 2743                |
| ---+---- | --+-----  | -----+    | 2707, 2716 = 2716, 2727                                                         |
| ---+---- | --+-----  | -----+    | 2707, 2717 = 2717, 2727                                                         |
| ---+---- | --+-----  | -----+    | 2707, 2737 = 2727, 2737                                                         |
| ---+---- | --+-----  | -----+    | 2705, 2707 = 2705, 2727 = 270504, 2707 = 270504, 2727                           |
| ---+---- | --+-----  | -----+    | 2713, 2717 = 2713, 2734                                                         |
| ---+---- | --+-----  | -----+    | 2705, 2713 = 270504, 2713 = 2713, 2713                                          |
| ---+---- | -----+    | -----+    | 2716, 2717 = 2716, 2734                                                         |
| ---+---- | -----+    | -----+    | 2705, 2716 = 270504, 2716 = 2716, 2716                                          |
| ---+---- | -----+    | -----+    | 2717, 2737 = 2734, 2737                                                         |
| ---+---- | -----+    | -----+    | 2705, 2717 = 2705, 2734 = 270504, 2717 = 270504, 2734 = 2717, 2717 = 2717, 2734 |
| ---+---- | -----+    | -----+    | 2705, 2719 = 270504, 2719                                                       |
| ---+---- | -----     | +-----+   | 2705, 2714 = 270504, 2714                                                       |
| ---+---- | -----     | -+-----   | 2705, 2732 = 270504, 2732                                                       |
| ---+---- | -----     | --+-----  | 2705, 2738 = 270504, 2738                                                       |
| ---+---- | -----     | ---+----- | 2705, 2709 = 270504, 2709                                                       |
| ---+---- | -----     | -----+    | 2705, 2737 = 270504, 2737                                                       |
| ---+---- | -----     | -----+    | 2705, 2728 = 270504, 2728                                                       |
| ---+---- | -----     | -----+    | 2705, 2705 = 2705, 270504                                                       |
| ---+---- | +-----    | --+-----  | 2707, 2735 = 2727, 2735                                                         |
| ---+---- | +-----    | -----+    | 2707, 2741 = 2727, 2741                                                         |
| ---+---- | +-----    | --+-----  | 2735, 2735 = 2735, 2741                                                         |
| ---+---- | --++----- | -----     | 2707, 2743 = 2743, 2743                                                         |
| ---+---- | --+-----  | ---+----- | 2707, 2709 = 2709, 2727                                                         |
| ---+---- | --+-----  | -----+    | 2707, 2727 = 2727, 2727                                                         |
| ---+---- | +++-----  | ----+--   | 2706, 2708 = 2706, 2740 = 2706, 2742                                            |
| ---+---- | +--+----- | -----+    | 2708, 2720 = 2711, 2740 = 2720, 2740 = 2720, 2742                               |
| ---+---- | +-----    | ----+--   | 2704, 2708 = 2704, 2740 = 2704, 2742                                            |
| ---+---- | +-----    | -----+    | 2715, 2726 = 2731, 2740 = 2737, 2740                                            |
| ---+---- | +-----    | -----+    | 2708, 2715 = 2715, 2740 = 2715, 2742 = 2721, 2740                               |
| ---+---- | --+-----  | -+-----   | 2708, 2724 = 2724, 2742                                                         |
| ---+---- | --+-----  | -----+    | 2711, 2726 = 2731, 2733 = 2733, 2737                                            |
| ---+---- | --+-----  | -----+    | 2708, 2711 = 2711, 2742                                                         |
| ---+---- | -----     | -----+    | 2712, 2731 = 2712, 2737                                                         |

Lot No.: **09F**

Lot-specific Information

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|      |      |       |         |                                        |
|------|------|-------|---------|----------------------------------------|
| ---- | ++++ | ----- | --+---- | 2708, 2725 = 2725, 2742                |
| ---- | ++++ | ----- | ---+--- | 2708, 2736 = 2736, 2742                |
| ---- | ++++ | ----- | -----++ | 2708, 2731 = 2708, 2737 = 2721, 2726 = |
|      |      |       |         | 2726, 2731 = 2726, 2737 = 2731, 2742   |
| ---- | ++++ | ----- | -----++ | 2708, 2721 = 2721, 2742                |
| ---- | +++  | ----- | -----   | 2711, 2733 = 2721, 2733                |
| ---- | ++   | ----- | -----   | 2706, 2731 = 2706, 2737                |
| ---- | ++   | ----- | -----   | 2704, 2706 = 2706, 2715                |
| ---- | ++   | ----- | -----   | 2704, 2711 = 2704, 2720                |
| ---- | ++   | ----- | -----   | 2720, 2731 = 2720, 2737                |
| ---- | ++   | ----- | -----   | 2704, 2731 = 2704, 2737                |
| ---- | ++   | ----- | -----   | 2704, 2704 = 2704, 2715 = 2704, 2721   |
| ---- | ++   | ----- | -----   | 2715, 2731 = 2715, 2737                |
| ---- | ++   | ----- | -----   | 2715, 2715 = 2715, 2721                |
| ---- | ++   | ----- | -----   | 2724, 2731 = 2724, 2737                |
| ---- | ++   | ----- | -----   | 2711, 2731 = 2711, 2737                |
| ---- | ++   | ----- | -----   | 2725, 2731 = 2725, 2737                |
| ---- | ++   | ----- | -----   | 2721, 2725 = 2725, 2725                |
| ---- | ++   | ----- | -----   | 2731, 2736 = 2736, 2737                |
| ---- | ++   | ----- | -----   | 2721, 2736 = 2736, 2736                |
| ---- | ++   | ----- | -----   | 2721, 2731 = 2721, 2737 = 2731, 2731 = |
|      |      |       |         | 2731, 2737                             |
| ---- | ++   | ----- | -----   | 2706, 2711 = 2706, 2720                |
| ---- | ++   | ----- | -----   | 2706, 2706 = 2706, 2721                |
| ---- | ++   | ----- | -----   | 2711, 2720 = 2720, 2720 = 2720, 2721   |
| ---- | ++   | ----- | -----   | 2711, 2724 = 2721, 2724 = 2724, 2724   |
| ---- | ++   | ----- | -----   | 2711, 2711 = 2711, 2721                |
| ---- | ++   | ----- | -----   | 2708, 2740 = 2740, 2740 = 2740, 2742   |
| ---- | ++   | ----- | -----   | 2708, 2733 = 2733, 2742                |
| ---- | ++   | ----- | -----   | 2708, 2712 = 2712, 2712 = 2712, 2742   |
| ---- | ++   | ----- | -----   | 2708, 2726 = 2726, 2726 = 2726, 2742   |
| ---- | ++   | ----- | -----   | 2708, 2708 = 2708, 2742                |

(2705 = 270502, 270503, 270504 to 270510)

## SPECIFICITY TABLE

### HLA-B\*27 SSP subtyping

Specificities and sizes of the PCR products of the 24 primer mixes used for HLA-B\*27 SSP subtyping

| Primer Mix           | Size of spec. PCR product <sup>1</sup> | Size of control band <sup>2</sup> | Amplified HLA-B*27 alleles <sup>3</sup>                                                                                  | Other amplified HLA Class I alleles <sup>3,4</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------|----------------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b>             | 390 bp                                 | <b>800 bp</b>                     | 2701, 2718, 2723, 2729                                                                                                   | 180101, 180103, 1802, 1804-1815, 1817N-1824, 1826-1829, 3542, 370101-3714, 400201, 400202-400203 <sup>?</sup> , 4003-40060102, 400602 <sup>?</sup> , 4008, 4009-4011 <sup>?</sup> , 4013, 401401-4015 <sup>?</sup> , 4018-4022N <sup>?</sup> , 4024-4038 <sup>?</sup> , 4039, 4040 <sup>?</sup> , 4042 <sup>?</sup> , 4043, 4044-4049 <sup>?</sup> , 4050, 4052-4058 <sup>?</sup> , 4061-4065 <sup>?</sup> , 4067-4069 <sup>?</sup> , 4070, 4071 <sup>?</sup> , 407202 <sup>?</sup> , 4074-4076 <sup>?</sup> , 4078 <sup>?</sup> , 4080-4088 <sup>?</sup> , 4089, 4090-4092 <sup>?</sup> , 47010101-4705 |
| <b>2<sup>7</sup></b> | 385, 405 bp                            | <b>800 bp</b>                     | 2702, 2730, 2739                                                                                                         | 4013, 4019 <sup>?</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>3<sup>5</sup></b> | 120 bp                                 | 1070 bp                           | 2703                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>4</b>             | 245 bp                                 | 1070 bp                           | 2703, 270502-270510, 2707, 2709, 2710, 2713, 2714, 2716, 2717, 2719, 2727-2729, 2732, 2734, 2735, 2738, 2739, 2741, 2743 | 370101-3704, 3706-3709, 3712, 3713                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>5</b>             | 400 bp                                 | 1070 bp                           | 270401-270402, 2706, 2708, 2711, 2712, 2715, 2718, 2720, 2721, 2723-2726, 2731, 2733, 2736, 2740                         | 180101-1808, 1810-1815, 1817N-1824, 1826-1829, 3542, 3711, 3714, 400201-400602, 4008, 4009-4011 <sup>?</sup> , 401401-4015 <sup>?</sup> ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

Lot No.: **09F**

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|                      |        |               |                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------|--------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      |        |               |                                                                                                                                              | 4018 <sup>?</sup> , 4020-4022N <sup>?</sup> ,<br>4024-4036 <sup>?</sup> , 4038 <sup>?</sup> ,<br>4039, 4040 <sup>?</sup> , 4042-<br>4046 <sup>?</sup> , 4048-4050 <sup>?</sup> ,<br>4052-4058 <sup>?</sup> , 4061-<br>4065 <sup>?</sup> , 4067-4069 <sup>?</sup> ,<br>4070, 4071 <sup>?</sup> ,<br>407202 <sup>?</sup> , 4074-4076 <sup>?</sup> ,<br>4078 <sup>?</sup> , 4080-4088 <sup>?</sup> ,<br>4089, 4090-4092 <sup>?</sup> ,<br>4702, 4703, 8201,<br>8202                                                                                                                                                                                        |
| <b>6</b>             | 415 bp | <b>800 bp</b> | 2701-270402,<br>270502-270503,<br>270505-2707,<br>2709-2711, 2713-<br>2717, 2719-2721,<br>2723-2725, 2727-<br>2732, 2734-2739,<br>2741, 2743 | 1809, 370101-3704,<br>3706-3710, 3712-<br>3714, 4013, 4019 <sup>?</sup> ,<br>4047 <sup>?</sup> , 47010101-<br>47010102, 4703-4705                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>7</b>             | 410 bp | 1070 bp       | 2708, 2712, 2718,<br>2726, 2733, 2740,<br>2742                                                                                               | 180101-1808, 1810-<br>1815, 1817N-1824,<br>1826-1829, 3542,<br>3705, 3711, 3714,<br>400201-400602,<br>4008, 4009-4011 <sup>?</sup> ,<br>401401-4015 <sup>?</sup> , 4018 <sup>?</sup> ,<br>4020-4022N <sup>?</sup> , 4024-<br>4038 <sup>?</sup> , 4039, 4040 <sup>?</sup> ,<br>4042-4046 <sup>?</sup> , 4048-<br>4050 <sup>?</sup> , 4052-4058 <sup>?</sup> ,<br>4061-4065 <sup>?</sup> , 4067-<br>4069 <sup>?</sup> , 4070, 4071 <sup>?</sup> ,<br>407202 <sup>?</sup> , 4074 <sup>?</sup> ,<br>4075 <sup>?</sup> , 4078 <sup>?</sup> , 4080-<br>4088 <sup>?</sup> , 4089, 4090-<br>4092 <sup>?</sup> , 4702,<br>4703 <sup>weakly</sup> , 8201,<br>8202 |
| <b>8<sup>5</sup></b> | 95 bp  | 1070 bp       | 2701-270402,<br>270502-270510,<br>2708, 2710, 2712,<br>2713, 2715-2718,<br>2723, 2725, 2726,<br>2728, 2729, 2731,<br>2736-2740, 2742         | 3702, 4704, 4705                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>9</b>             | 205 bp | 1070 bp       | 270401-270402,                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

Lot No.: **09F**

Lot-specific Information

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|                         |                |               |                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|----------------|---------------|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         |                |               | 2706, 2710, 2715,<br>2718, 2720, 2740          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>10<sup>5</sup></b>   | 90 bp          | <b>800 bp</b> | 2706, 2735, 2741                               | 9529, 1802,<br><b>Cw*0705<sup>weakly</sup></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>11</b>               | 190 bp         | 1070 bp       | 2707, 2711, 2720,<br>2724, 2727, 2733,<br>2743 | 070501-0706, 0732,<br>0740, 0753, 1301-<br>130204, 1307N-1309,<br>1311, 1313-1322,<br>3531, 3588, 400101-<br>400203, 4004,<br>40060101-4008,<br>4010-4016, 4019,<br>4021-4023, 4025,<br>4027, 4029, 4030,<br>4034-4038, 4040,<br>4043, 4045-4050,<br>4053-4058, 4061,<br>4062, 4064-4070,<br>407201-4088, 4090,<br>4091, 4431, 480101-<br>480102, 480301-4807,<br>4809-4816, 4818,<br>4819, 5110, 5116,<br>5131, 5134, 5208,<br>5509, 5522, 5524,<br>8101-8104N                                                                                                                                                           |
| <b>12<sup>8</sup></b>   | 270, 430<br>bp | 1070 bp       | 2713, 2743                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>13</b>               | 370 bp         | <b>800 bp</b> | 2712, 2716                                     | 4075 <sup>weakly</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>14<sup>5,9</sup></b> | 120, 345<br>bp | <b>800 bp</b> | 2717, 2734                                     | 400602                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>15</b>               | 370 bp         | 1070 bp       | 2718, 2729                                     | 180101-1806, 1808-<br>1815, 1817N-1824,<br>1826-1828, 370101-<br>3714, 400201,<br>400202 <sup>?</sup> , 4003-<br>40060102, 400602 <sup>?</sup> ,<br>4009-4011 <sup>?</sup> , 401401-<br>4015 <sup>?</sup> , 4018-4022N <sup>?</sup> ,<br>4024-4038 <sup>?</sup> , 4039,<br>4040 <sup>?</sup> , 4042-4050 <sup>?</sup> ,<br>4052-4058 <sup>?</sup> , 4062-<br>4065 <sup>?</sup> , 4067 <sup>?</sup> , 4069 <sup>?</sup> ,<br>4070, 4071 <sup>?</sup> , 407202 <sup>?</sup> ,<br>4074 <sup>?</sup> , 4076 <sup>?</sup> , 4078 <sup>?</sup> ,<br>4080-4088 <sup>?</sup> , 4089,<br>4090-4092 <sup>?</sup> ,<br>47010101-4705 |

Lot No.: **09F**

Lot-specific Information

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|                          |             |               |                                                                                                                      |                                                                                                                                                                                                                                          |
|--------------------------|-------------|---------------|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>16<sup>6</sup></b>    | 245 bp      | 1070 bp       | 2719, 2730                                                                                                           | 0712, 0714, 071801-071802, 1301, 1307N, 1313, 1317, 1320-1322, 3515, 3533, 3588, 4004, 4030, 4034, 4059, 4064, 4068, 4416, 4421, 446401-446402, 4817, 5713,<br><b>Cw*0334</b>                                                            |
| <b>17<sup>5</sup></b>    | 100 bp      | 1070 bp       | 2714                                                                                                                 | 4420, 4447                                                                                                                                                                                                                               |
| <b>18<sup>5,10</sup></b> | 95, 175 bp  | <b>800 bp</b> | 2724, 2732                                                                                                           | 0728, 0814, 4031, 4045, 4080, 4454, 480101-480102, 4804, 4806, 4807, 4809, 4811, 4815, 4816, 4818, 4819, 8101-8104N                                                                                                                      |
| <b>19<sup>5,11</sup></b> | 95, 235 bp  | <b>800 bp</b> | 2725, 2735, 2738                                                                                                     | 9529                                                                                                                                                                                                                                     |
| <b>20<sup>5,12</sup></b> | 95, 175 bp  | <b>800 bp</b> | 2709, 2736                                                                                                           |                                                                                                                                                                                                                                          |
| <b>21<sup>5</sup></b>    | 110 bp      | <b>800 bp</b> | 270401, 270402 <sup>?</sup> , 2706                                                                                   |                                                                                                                                                                                                                                          |
| <b>22<sup>13</sup></b>   | 195, 380 bp | <b>800 bp</b> | 2726, 2731, 2737                                                                                                     | 8201, 8202                                                                                                                                                                                                                               |
| <b>23</b>                | 235 bp      | <b>800 bp</b> | 2701-270402, 270502-2706, 2708-2710, 2712, 2713, 2716-2718, 2720, 2723, 2726, 2727, 2729, 2731, 2735-2737, 2739-2742 | 3702, 4704, 4705                                                                                                                                                                                                                         |
| <b>24<sup>5,14</sup></b> | 105, 260 bp | 1070 bp       | 2718, 2728, 2729                                                                                                     | 0727, 0750, 0804, 0817, 1503, 1547, 1549, 1554, 1561, 1562, 1564, 1568, 1569, 1591, 1598, 9503, 9523, 9527, 9531, 9532, 1802, 3803, 390201-390202, 3908, 391301-391302, 3923, 3939, 4012, 4046, 4440, 4444, 480101-4805, 4807-4819, 5518 |

<sup>1</sup>Alleles are assigned by the presence of specific PCR product(s). However, the sizes of the specific PCR products may be helpful in the interpretation of HLA-B\*27 SSP typings.

When the primers in a primer mix can give rise to specific PCR products of more than one length this is indicated if the size difference is 20 base pairs or more. Size differences shorter than 20 base pairs are not given. For high resolution SSP kits the respective length of the specific PCR product(s) of the alleles amplified by these primer mixes are given.

Nonspecific amplifications, i.e. a ladder or a smear of bands, may sometimes be seen. GC-rich primers have a higher tendency of giving rise to nonspecific amplifications than other primers.

PCR fragments longer than the control bands may sometimes be observed. Such bands should be disregarded and do not influence the interpretation of the SSP typings.

PCR fragments migrating faster than the control bands, but slower than a 400 bp fragment may be seen in some gel read-outs. Such bands can be disregarded and do not influence the interpretation of the SSP typings.

Some primers may give rise to primer oligomer artifacts. Sometimes this phenomenon is an inherent feature of the primer pair(s) of a primer mix. More often it is due to other factors such as too low amount of DNA in the PCR reactions, taking too long time in setting up the PCR reactions, working at elevated room temperature or using thermal cyclers that are not pre-heated.

<sup>2</sup>The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells.

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-B\*27 subtyping.

In addition, wells number 2, 6, 10, 13, 14, 18 to 23 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

In the presence of a specific amplification the intensity of the control band often decreases.

<sup>3</sup>For several HLA-B alleles 1<sup>st</sup> exon nucleotide sequences are not available. In these instances it is not known whether some of the primers of the HLA-B\*27 SSP subtyping kit are completely matched with the target sequences or not. We assume that unknown sequences in the 1<sup>st</sup> exon are conserved within allelic groups.

<sup>4</sup>Due to the sharing of sequence motifs between HLA-B alleles non-HLA-B\*27 alleles will be amplified by primer mixes 1, 2, 4 to 8, 10, 11, 13 to 19, 22 to 24. In addition, the primers in vial 10 will weakly amplify the Cw\*0705 allele and the Cw\*0334 allele will be amplified by primer mix 16.

<sup>5</sup>Short specific PCR fragments are less intense and not as sharp as longer specific bands.

<sup>6</sup>Primer mix 16 has a tendency of giving rise to nonspecific amplifications.

<sup>7</sup>Primer mix 2: Specific PCR product of 385 bp in the B\*2739 allele. Specific PCR product of 405 bp in the B\*2702 and B\*2730 and the B\*4012 and B\*4019<sup>?</sup> alleles.

<sup>8</sup>Primer mix 12: Specific PCR product of 270 bp in the B\*2743 allele. Specific PCR product of 430 bp in the B\*2713 allele.

<sup>9</sup>Primer mix 14: Specific PCR product of 120 bp in the B\*2734 and B\*400602 alleles. Specific PCR product of 345 bp in the B\*2717 allele.

<sup>10</sup>Primer mix 18: Specific PCR product of 95 bp in the B\*2732 and B\*0728, 0814 and 4454 alleles. Specific PCR product of 175 bp in the B\*2724 and B\*4031, 4045, 4080, 480101-480102, 4804, 4806, 4807, 4809, 4811, 4815, 4816, 4818, 4819 and 8101- 8104N alleles.

<sup>11</sup>Primer mix 19: Specific PCR fragment of 95 bp in the B\*2735 allele. Specific PCR fragment of 235 bp in the B\*2725, 2738 and B\*9529 alleles.

<sup>12</sup>Primer mix 20: Specific PCR fragment of 95 bp in the B\*2709 allele. Specific PCR fragment of 175 bp in the B\*2736 allele.

<sup>13</sup>Primer mix 22: Specific PCR fragment of 195 bp in the B\*2737 allele. Specific PCR fragment of 380 bp in the B\*2726, 2731 and B\*8201-8202 alleles.

<sup>14</sup>Primer mix 24: Specific PCR fragment of 105 bp in the B\*2718, 2729 and the B\*0727, 0750, 0804, 0817, 1503, 1547, 1549, 1554, 1561, 1562, 1564, 1568, 1569, 1591, 1598, 9503, 9523, 9527, 9531, 9532, 3803, 390201-390202, 3908, 391301-391302, 3923, 3939, 4012, 4046, 4440, 4444, 480101-4805, 4807-4819 and 5518 alleles. Specific PCR fragment of 260 bp in the B\*2728 and B\*1802 alleles.

'?', nucleotide sequence information not available for the primer matching sequence.

| INTERPRETATION TABLE                                   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|--------------------------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| HLA-B*27 SSP subtyping                                 |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| Amplification patterns of the B*2701 to B*2743 alleles |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|                                                        | Well <sup>5</sup>    |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|                                                        | 1                    | 2                    | 3                    | 4                    | 5                    | 6                    | 7                    | 8                    | 9                    | 10                   | 11                   | 12                   |
| Length of spec.                                        | 390                  | 385                  | 120                  | 245                  | 400                  | 415                  | 410                  | 95                   | 205                  | 90                   | 190                  | 270                  |
| PCR product(s)                                         |                      | 405                  |                      |                      |                      |                      |                      |                      |                      |                      |                      | 430                  |
| Length of int.                                         | 800                  | 800                  | 1070                 | 1070                 | 1070                 | 800                  | 1070                 | 1070                 | 1070                 | 800                  | 1070                 | 1070                 |
| pos. control <sup>1</sup>                              |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 5'-primer(s) <sup>2</sup>                              | 72                   | 72                   | 167                  | 97                   | 72                   | 72                   | 72                   | 363                  | 363                  | 363                  | 412                  | 14                   |
|                                                        | 5'-gCT <sup>3'</sup> | 5'-gCT <sup>3'</sup> | 5'-gCT <sup>3'</sup> | 5'-TCC <sup>3'</sup> | 5'-gCT <sup>3'</sup> | 5'-gCT <sup>3'</sup> | 5'-gCT <sup>3'</sup> | 5'-AAT <sup>3'</sup> | 5'-AAT <sup>3'</sup> | 5'-AAT <sup>3'</sup> | 5'-ATA <sup>3'</sup> | 5'-ggA <sup>3'</sup> |
|                                                        |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      | 385                  |
|                                                        |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      | 5'-ggT <sup>3'</sup> |
|                                                        |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 3'-primer(s) <sup>3</sup>                              | 292                  | 287                  | 247                  | 301                  | 301                  | 317                  | 311                  | 418                  | 527                  | 409                  | 559                  | 272                  |
|                                                        | 5'-gTA <sup>3'</sup> | 5'-TCA <sup>3'</sup> | 5'-ATg <sup>3'</sup> | 5'-gTC <sup>3'</sup> | 5'-gCT <sup>3'</sup> | 5'-ggA <sup>3'</sup> | 5'-ggT <sup>3'</sup> | 5'-gTC <sup>3'</sup> | 5'-CCT <sup>3'</sup> | 5'-ATA <sup>3'</sup> | 5'-CTC <sup>3'</sup> | 5'-TgC <sup>3'</sup> |
|                                                        |                      | 309                  |                      |                      | 302                  |                      |                      |                      |                      | 419                  |                      | 3 <sup>rd</sup> I    |
|                                                        |                      | 5'-ATC <sup>3'</sup> |                      |                      | 5'-ggC <sup>3'</sup> |                      |                      |                      |                      | 5'-Cgg <sup>3'</sup> |                      | 5'-TAT <sup>3'</sup> |
|                                                        |                      |                      |                      |                      |                      |                      |                      |                      |                      | 419                  |                      |                      |
|                                                        |                      |                      |                      |                      |                      |                      |                      |                      |                      | 5'-CgA <sup>3'</sup> |                      |                      |
| Well No.                                               | 1                    | 2                    | 3                    | 4                    | 5                    | 6                    | 7                    | 8                    | 9                    | 10                   | 11                   | 12                   |
| HLA-B allele <sup>4</sup>                              |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| *2701                                                  | 1                    |                      |                      |                      |                      | 6                    |                      | 8                    |                      |                      |                      |                      |
| *2702                                                  |                      | 2                    |                      |                      |                      | 6                    |                      | 8                    |                      |                      |                      |                      |
| *2703                                                  |                      |                      | 3                    | 4                    |                      | 6                    |                      | 8                    |                      |                      |                      |                      |
| *270401                                                |                      |                      |                      |                      | 5                    | 6                    |                      | 8                    | 9                    |                      |                      |                      |
| *270402                                                |                      |                      |                      |                      | 5                    | 6                    |                      | 8                    | 9                    |                      |                      |                      |
| *270502-270503, 270505-270510                          |                      |                      |                      | 4                    |                      | 6                    |                      | 8                    |                      |                      |                      |                      |
| *270504                                                |                      |                      |                      | 4                    |                      |                      |                      | 8                    |                      |                      |                      |                      |
| *2706                                                  |                      |                      |                      |                      | 5                    | 6                    |                      |                      | 9                    | 10                   |                      |                      |
| *2707                                                  |                      |                      |                      | 4                    |                      | 6                    |                      |                      |                      |                      | 11                   |                      |
| *2708                                                  |                      |                      |                      |                      | 5                    |                      | 7                    | 8                    |                      |                      |                      |                      |
| *2709                                                  |                      |                      |                      | 4                    |                      | 6                    |                      |                      |                      |                      |                      |                      |
| *2710                                                  |                      |                      |                      | 4                    |                      | 6                    |                      | 8                    | 9                    |                      |                      |                      |
| *2711                                                  |                      |                      |                      |                      | 5                    | 6                    |                      |                      |                      |                      | 11                   |                      |
| *2712                                                  |                      |                      |                      |                      | 5                    |                      | 7                    | 8                    |                      |                      |                      |                      |
| *2713                                                  |                      |                      |                      | 4                    |                      | 6                    |                      | 8                    |                      |                      |                      | 12                   |
| *2714                                                  |                      |                      |                      | 4                    |                      | 6                    |                      |                      |                      |                      |                      |                      |
| *2715                                                  |                      |                      |                      |                      | 5                    | 6                    |                      | 8                    | 9                    |                      |                      |                      |
| *2716                                                  |                      |                      |                      | 4                    |                      | 6                    |                      | 8                    |                      |                      |                      |                      |
| *2717                                                  |                      |                      |                      | 4                    |                      | 6                    |                      | 8                    |                      |                      |                      |                      |
| Well No.                                               | 1                    | 2                    | 3                    | 4                    | 5                    | 6                    | 7                    | 8                    | 9                    | 10                   | 11                   | 12                   |

| INTERPRETATION TABLE                                   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                               |
|--------------------------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------------------------|
| HLA-B*27 SSP subtyping                                 |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                               |
| Amplification patterns of the B*2701 to B*2743 alleles |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                               |
| Well <sup>5</sup>                                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                               |
| 13                                                     | 14                   | 15                   | 16                   | 17                   | 18                   | 19                   | 20                   | 21                   | 22                   | 23                   | 24                   |                               |
| 370                                                    | 120                  | 370                  | 245                  | 100                  | 95                   | 95                   | 95                   | 110                  | 195                  | 235                  | 105                  | Length of spec.               |
|                                                        | 345                  |                      |                      |                      | 175                  | 235                  | 175                  |                      | 380                  |                      | 260                  | PCR product(s)                |
| 800                                                    | 800                  | 1070                 | 1070                 | 1070                 | 800                  | 800                  | 800                  | 800                  | 800                  | 800                  | 1070                 | Length of int.                |
|                                                        |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      | pos. control <sup>1</sup>     |
| 72                                                     | 72                   | 72                   | 355                  | 357                  | 363                  | 363                  | 363                  | 704                  | 72                   | 363                  | 206                  | 5'-primer(s) <sup>2</sup>     |
| 5'-gCT <sup>3'</sup>                                   | 5'-gCT <sup>3'</sup> | 5'-gCT <sup>3'</sup> | 5'-TCA <sup>3'</sup> | 5'-Tgg <sup>3'</sup> | 5'-AgC <sup>3'</sup> | 5'-AAT <sup>3'</sup> | 5'-AAT <sup>3'</sup> | 5'-Tgg <sup>3'</sup> | 5'-gCT <sup>3'</sup> | 5'-AAT <sup>3'</sup> | 5'-AgA <sup>3'</sup> |                               |
|                                                        | 409                  |                      |                      |                      |                      |                      |                      |                      |                      |                      | 363                  |                               |
|                                                        | 5'-ggC <sup>3'</sup> |                      |                      |                      |                      |                      |                      |                      |                      |                      | 5'-AAT <sup>3'</sup> |                               |
|                                                        |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                               |
| 272                                                    | 248                  | 272                  | 559                  | 418                  | 418                  | 419                  | 418                  | 774                  | 97                   | 559                  | 272                  | 3'-primer(s) <sup>3</sup>     |
| 5'-TgC <sup>3'</sup>                                   | 5'-AAA <sup>3'</sup> | 5'-Tgg <sup>3'</sup> | 5'-CTC <sup>3'</sup> | 5'-gTC <sup>3'</sup> | 5'-gTC <sup>3'</sup> | 5'-CgA <sup>3'</sup> | 5'-gTg <sup>3'</sup> | 5'-ggT <sup>3'</sup> | 5'-gTA <sup>3'</sup> | 5'-CTC <sup>3'</sup> | 5'-Tgg <sup>3'</sup> |                               |
|                                                        | 486                  |                      |                      |                      | 499                  | 559                  | 499                  |                      | 280                  |                      | 583                  |                               |
|                                                        | 5'-gCT <sup>3'</sup> |                      |                      |                      | 5'-ggA <sup>3'</sup> | 5'-CAg <sup>3'</sup> | 5'-ggA <sup>3'</sup> |                      | 5'-CTg <sup>3'</sup> |                      | 5'-gTg <sup>3'</sup> |                               |
|                                                        |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                               |
|                                                        |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                               |
| 13                                                     | 14                   | 15                   | 16                   | 17                   | 18                   | 19                   | 20                   | 21                   | 22                   | 23                   | 24                   | Well No.                      |
|                                                        |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      | HLA-B allele <sup>4</sup>     |
|                                                        |                      |                      |                      |                      |                      |                      |                      |                      |                      | 23                   |                      | *2701                         |
|                                                        |                      |                      |                      |                      |                      |                      |                      |                      |                      | 23                   |                      | *2702                         |
|                                                        |                      |                      |                      |                      |                      |                      |                      |                      |                      | 23                   |                      | *2703                         |
|                                                        |                      |                      |                      |                      |                      |                      |                      | 21                   |                      | 23                   |                      | *270401                       |
|                                                        |                      |                      |                      |                      |                      |                      |                      | ?                    |                      | 23                   |                      | *270402                       |
|                                                        |                      |                      |                      |                      |                      |                      |                      |                      |                      | 23                   |                      | *270502-270503, 270505-270510 |
|                                                        |                      |                      |                      |                      |                      |                      |                      |                      |                      | 23                   |                      | *270504                       |
|                                                        |                      |                      |                      |                      |                      |                      |                      | 21                   |                      | 23                   |                      | *2706                         |
|                                                        |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      | *2707                         |
|                                                        |                      |                      |                      |                      |                      |                      |                      |                      |                      | 23                   |                      | *2708                         |
|                                                        |                      |                      |                      |                      |                      |                      | 20                   |                      |                      | 23                   |                      | *2709                         |
|                                                        |                      |                      |                      |                      |                      |                      |                      |                      |                      | 23                   |                      | *2710                         |
| 13                                                     |                      |                      |                      |                      |                      |                      |                      |                      |                      | 23                   |                      | *2711                         |
|                                                        |                      |                      |                      |                      |                      |                      |                      |                      |                      | 23                   |                      | *2712                         |
|                                                        |                      |                      |                      |                      |                      |                      |                      |                      |                      | 23                   |                      | *2713                         |
|                                                        |                      |                      |                      | 17                   |                      |                      |                      |                      |                      |                      |                      | *2714                         |
| 13                                                     |                      |                      |                      |                      |                      |                      |                      |                      |                      | 23                   |                      | *2715                         |
|                                                        | 14                   |                      |                      |                      |                      |                      |                      |                      |                      | 23                   |                      | *2716                         |
|                                                        |                      |                      |                      |                      |                      |                      |                      |                      |                      | 23                   |                      | *2717                         |
| 13                                                     | 14                   | 15                   | 16                   | 17                   | 18                   | 19                   | 20                   | 21                   | 22                   | 23                   | 24                   | Well No.                      |

| Length of spec.                                                                                                                                                                                                                               | 390 | 385 | 120 | 245 | 400 | 415 | 410 | 95 | 205 | 90 | 190 | 270 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|----|-----|----|-----|-----|
| PCR product(s)                                                                                                                                                                                                                                |     | 405 |     |     |     |     |     |    |     |    |     | 430 |
| Well No.                                                                                                                                                                                                                                      | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8  | 9   | 10 | 11  | 12  |
| *2718                                                                                                                                                                                                                                         | 1   |     |     |     | 5   |     | 7   | 8  | 9   |    |     |     |
| *2719                                                                                                                                                                                                                                         |     |     |     | 4   |     | 6   |     |    |     |    |     |     |
| *2720                                                                                                                                                                                                                                         |     |     |     |     | 5   | 6   |     |    | 9   |    | 11  |     |
| *2721                                                                                                                                                                                                                                         |     |     |     |     | 5   | 6   |     |    |     |    |     |     |
| *2723                                                                                                                                                                                                                                         | 1   |     |     |     | 5   | 6   |     | 8  |     |    |     |     |
| *2724                                                                                                                                                                                                                                         |     |     |     |     | 5   | 6   |     |    |     |    | 11  |     |
| *2725                                                                                                                                                                                                                                         |     |     |     |     | 5   | 6   |     | 8  |     |    |     |     |
| *2726                                                                                                                                                                                                                                         |     |     |     |     | 5   |     | 7   | 8  |     |    |     |     |
| *2727                                                                                                                                                                                                                                         |     |     |     | 4   |     | 6   |     |    |     |    | 11  |     |
| *2728                                                                                                                                                                                                                                         |     |     |     | 4   |     | 6   |     | 8  |     |    |     |     |
| *2729                                                                                                                                                                                                                                         | 1   |     |     | 4   |     | 6   |     | 8  |     |    |     |     |
| *2730                                                                                                                                                                                                                                         |     | 2   |     |     |     | 6   |     |    |     |    |     |     |
| *2731                                                                                                                                                                                                                                         |     |     |     |     | 5   | 6   |     | 8  |     |    |     |     |
| *2732                                                                                                                                                                                                                                         |     |     |     | 4   |     | 6   |     |    |     |    |     |     |
| *2733                                                                                                                                                                                                                                         |     |     |     |     | 5   |     | 7   |    |     |    | 11  |     |
| *2734                                                                                                                                                                                                                                         |     |     |     | 4   |     | 6   |     |    |     |    |     |     |
| *2735                                                                                                                                                                                                                                         |     |     |     | 4   |     | 6   |     |    |     | 10 |     |     |
| *2736                                                                                                                                                                                                                                         |     |     |     |     | 5   | 6   |     | 8  |     |    |     |     |
| *2737                                                                                                                                                                                                                                         |     |     |     |     |     | 6   |     | 8  |     |    |     |     |
| *2738                                                                                                                                                                                                                                         |     |     |     | 4   |     | 6   |     | 8  |     |    |     |     |
| *2739                                                                                                                                                                                                                                         |     | 2   |     | 4   |     | 6   |     | 8  |     |    |     |     |
| *2740                                                                                                                                                                                                                                         |     |     |     |     | 5   |     | 7   | 8  | 9   |    |     |     |
| *2741                                                                                                                                                                                                                                         |     |     |     | 4   |     | 6   |     |    |     | 10 |     |     |
| *2742                                                                                                                                                                                                                                         |     |     |     |     |     |     | 7   | 8  |     |    |     |     |
| *2743                                                                                                                                                                                                                                         |     |     |     | 4   |     | 6   |     |    |     |    | 11  | 12  |
| *070501-0706, 0732, 0740,<br>0753, 130201-130204,<br>1308Q, 1309, 1311, 1314-<br>1316, 1318, 1319, 3531,<br>400101-400106, 4007,<br>4016, 4023, 4066, 407201,<br>4073, 4077, 4079, 4431,<br>5110, 5116, 5131, 5134,<br>5208, 5509, 5522, 5524 |     |     |     |     |     |     |     |    |     |    | 11  |     |
| *0712, 0714, 071801-<br>071802, 3515, 3533, 4059,<br>4416, 4421, 446401-<br>446402, 5713                                                                                                                                                      |     |     |     |     |     |     |     |    |     |    |     |     |
| Well No.                                                                                                                                                                                                                                      | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8  | 9   | 10 | 11  | 12  |

Lot No.: **09F**

Lot-specific Information

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| 370 | 120 | 370 | 245 | 100 | 95  | 95  | 95  | 110 | 195 | 235 | 105 | Length of spec.                                                                                                                                                                                                                               |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | 345 |     |     |     | 175 | 235 | 175 |     | 380 |     | 260 | PCR product(s)                                                                                                                                                                                                                                |
| 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | Well No.                                                                                                                                                                                                                                      |
|     |     | 15  |     |     |     |     |     |     |     | 23  | 24  | *2718                                                                                                                                                                                                                                         |
|     |     |     | 16  |     |     |     |     |     |     |     |     | *2719                                                                                                                                                                                                                                         |
|     |     |     |     |     |     |     |     |     |     | 23  |     | *2720                                                                                                                                                                                                                                         |
|     |     |     |     |     |     |     |     |     |     |     |     | *2721                                                                                                                                                                                                                                         |
|     |     |     |     |     |     |     |     |     |     | 23  |     | *2723                                                                                                                                                                                                                                         |
|     |     |     |     |     | 18  |     |     |     |     |     |     | *2724                                                                                                                                                                                                                                         |
|     |     |     |     |     |     | 19  |     |     |     |     |     | *2725                                                                                                                                                                                                                                         |
|     |     |     |     |     |     |     |     |     | 22  | 23  |     | *2726                                                                                                                                                                                                                                         |
|     |     |     |     |     |     |     |     |     |     | 23  |     | *2727                                                                                                                                                                                                                                         |
|     |     |     |     |     |     |     |     |     |     |     | 24  | *2728                                                                                                                                                                                                                                         |
|     |     | 15  |     |     |     |     |     |     |     | 23  | 24  | *2729                                                                                                                                                                                                                                         |
|     |     |     | 16  |     |     |     |     |     |     |     |     | *2730                                                                                                                                                                                                                                         |
|     |     |     |     |     |     |     |     |     | 22  | 23  |     | *2731                                                                                                                                                                                                                                         |
|     |     |     |     |     | 18  |     |     |     |     |     |     | *2732                                                                                                                                                                                                                                         |
|     |     |     |     |     |     |     |     |     |     |     |     | *2733                                                                                                                                                                                                                                         |
|     | 14  |     |     |     |     |     |     |     |     |     |     | *2734                                                                                                                                                                                                                                         |
|     |     |     |     |     |     | 19  |     |     |     | 23  |     | *2735                                                                                                                                                                                                                                         |
|     |     |     |     |     |     |     | 20  |     |     | 23  |     | *2736                                                                                                                                                                                                                                         |
|     |     |     |     |     |     |     |     |     | 22  | 23  |     | *2737                                                                                                                                                                                                                                         |
|     |     |     |     |     |     | 19  |     |     |     |     |     | *2738                                                                                                                                                                                                                                         |
|     |     |     |     |     |     |     |     |     |     | 23  |     | *2739                                                                                                                                                                                                                                         |
|     |     |     |     |     |     |     |     |     |     | 23  |     | *2740                                                                                                                                                                                                                                         |
|     |     |     |     |     |     |     |     |     |     | 23  |     | *2741                                                                                                                                                                                                                                         |
|     |     |     |     |     |     |     |     |     |     | 23  |     | *2742                                                                                                                                                                                                                                         |
|     |     |     |     |     |     |     |     |     |     |     |     | *2743                                                                                                                                                                                                                                         |
|     |     |     |     |     |     |     |     |     |     |     |     | *070501-0706, 0732, 0740,<br>0753, 130201-130204,<br>1308Q, 1309, 1311, 1314-<br>1316, 1318, 1319, 3531,<br>400101-400106, 4007,<br>4016, 4023, 4066, 407201,<br>4073, 4077, 4079, 4431,<br>5110, 5116, 5131, 5134,<br>5208, 5509, 5522, 5524 |
|     |     |     | 16  |     |     |     |     |     |     |     |     | *0712, 0714, 071801-<br>071802, 3515, 3533, 4059,<br>4416, 4421, 446401-<br>446402, 5713                                                                                                                                                      |
| 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | Well No.                                                                                                                                                                                                                                      |

| Length of spec.                                                                                                                                                                                                                     | 390 | 385 | 120 | 245 | 400 | 415 | 410 | 95 | 205 | 90 | 190 | 270 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|----|-----|----|-----|-----|
| PCR product(s)                                                                                                                                                                                                                      |     | 405 |     |     |     |     |     |    |     |    |     | 430 |
| Well No.                                                                                                                                                                                                                            | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8  | 9   | 10 | 11  | 12  |
| *0727, 0750, 0804, 0817,<br>1503, 1547, 1549, 1554,<br>1561, 1562, 1564, 1568,<br>1569, 1591, 1598, 9503,<br>9523, 9527, 9531, 9532,<br>3803, 390201-390202,<br>3908, 391301-391302,<br>3923, 3939, 4440, 4444,<br>4802, 4808, 5518 |     |     |     |     |     |     |     |    |     |    |     |     |
| *0728, 0814, 4454                                                                                                                                                                                                                   |     |     |     |     |     |     |     |    |     |    |     |     |
| *1301, 1307N, 1313, 1317,<br>1320-1322, 3588                                                                                                                                                                                        |     |     |     |     |     |     |     |    |     |    | 11  |     |
| *9529                                                                                                                                                                                                                               |     |     |     |     |     |     |     |    |     | 10 |     |     |
| *180101, 180103, 1804-<br>1806, 1808, 1810-1815,<br>1817N-1824, 1826-1828,<br>3711, 4003, 4005, 4039,<br>4702                                                                                                                       | 1   |     |     |     | 5   |     | 7   |    |     |    |     |     |
| *180102, 1803                                                                                                                                                                                                                       |     |     |     |     | 5   |     | 7   |    |     |    |     |     |
| *1802                                                                                                                                                                                                                               | 1   |     |     |     | 5   |     | 7   |    |     | 10 |     |     |
| *1807, 1829, 3542                                                                                                                                                                                                                   | 1   |     |     |     | 5   |     | 7   |    |     |    |     |     |
| *1809, 3710, 47010101-<br>47010102                                                                                                                                                                                                  | 1   |     |     |     |     | 6   |     |    |     |    |     |     |
| *370101-370104, 3703N,<br>3704, 3706-3709, 3712,<br>3713                                                                                                                                                                            | 1   |     |     | 4   |     | 6   |     |    |     |    |     |     |
| *3702                                                                                                                                                                                                                               | 1   |     |     | 4   |     | 6   |     | 8  |     |    |     |     |
| *3705                                                                                                                                                                                                                               | 1   |     |     |     |     |     | 7   |    |     |    |     |     |
| *3714                                                                                                                                                                                                                               | 1   |     |     |     | 5   | 6   | 7   |    |     |    |     |     |
| *400201, 40060101-<br>40060102, 4070                                                                                                                                                                                                | 1   |     |     |     | 5   |     | 7   |    |     |    | 11  |     |
| *400202                                                                                                                                                                                                                             | ?   |     |     |     | 5   |     | 7   |    |     |    | 11  |     |
| *400203                                                                                                                                                                                                                             | ?   |     |     |     | 5   |     | 7   |    |     |    | 11  |     |
| *4004                                                                                                                                                                                                                               | 1   |     |     |     | 5   |     | 7   |    |     |    | 11  |     |
| *400602                                                                                                                                                                                                                             | ?   |     |     |     | 5   |     | 7   |    |     |    | 11  |     |
| *4008                                                                                                                                                                                                                               | 1   |     |     |     | 5   |     | 7   |    |     |    | 11  |     |
| Well No.                                                                                                                                                                                                                            | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8  | 9   | 10 | 11  | 12  |

| 370 | 120 | 370 | 245 | 100 | 95  | 95  | 95  | 110 | 195 | 235 | 105 | Length of spec.                                                                                                                                                                                                                     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | 345 |     |     |     | 175 | 235 | 175 |     | 380 |     | 260 | PCR product(s)                                                                                                                                                                                                                      |
| 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | Well No.                                                                                                                                                                                                                            |
|     |     |     |     |     |     |     |     |     |     |     | 24  | *0727, 0750, 0804, 0817,<br>1503, 1547, 1549, 1554,<br>1561, 1562, 1564, 1568,<br>1569, 1591, 1598, 9503,<br>9523, 9527, 9531, 9532,<br>3803, 390201-390202,<br>3908, 391301-391302,<br>3923, 3939, 4440, 4444,<br>4802, 4808, 5518 |
|     |     |     |     |     | 18  |     |     |     |     |     |     | *0728, 0814, 4454                                                                                                                                                                                                                   |
|     |     |     | 16  |     |     |     |     |     |     |     |     | *1301, 1307N, 1313, 1317,<br>1320-1322, 3588                                                                                                                                                                                        |
|     |     |     |     |     | 19  |     |     |     |     |     |     | *9529                                                                                                                                                                                                                               |
|     |     | 15  |     |     |     |     |     |     |     |     |     | *180101, 180103, 1804-<br>1806, 1808, 1810-1815,<br>1817N-1824, 1826-1828,<br>3711, 4003, 4005, 4039,<br>4702                                                                                                                       |
|     |     | 15  |     |     |     |     |     |     |     |     |     | *180102, 1803                                                                                                                                                                                                                       |
|     |     | 15  |     |     |     |     |     |     |     |     | 24  | *1802                                                                                                                                                                                                                               |
|     |     |     |     |     |     |     |     |     |     |     |     | *1807, 1829, 3542                                                                                                                                                                                                                   |
|     |     | 15  |     |     |     |     |     |     |     |     |     | *1809, 3710, 47010101-<br>47010102                                                                                                                                                                                                  |
|     |     | 15  |     |     |     |     |     |     |     |     |     | *370101-370104, 3703N,<br>3704, 3706-3709, 3712,<br>3713                                                                                                                                                                            |
|     |     | 15  |     |     |     |     |     |     |     | 23  |     | *3702                                                                                                                                                                                                                               |
|     |     | 15  |     |     |     |     |     |     |     |     |     | *3705                                                                                                                                                                                                                               |
|     |     | 15  |     |     |     |     |     |     |     |     |     | *3714                                                                                                                                                                                                                               |
|     |     | 15  |     |     |     |     |     |     |     |     |     | *400201, 40060101-<br>40060102, 4070                                                                                                                                                                                                |
|     |     | ?   |     |     |     |     |     |     |     |     |     | *400202                                                                                                                                                                                                                             |
|     |     |     |     |     |     |     |     |     |     |     |     | *400203                                                                                                                                                                                                                             |
|     |     | 15  | 16  |     |     |     |     |     |     |     |     | *4004                                                                                                                                                                                                                               |
|     | 14  | ?   |     |     |     |     |     |     |     |     |     | *400602                                                                                                                                                                                                                             |
|     |     |     |     |     |     |     |     |     |     |     |     | *4008                                                                                                                                                                                                                               |
| 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | Well No.                                                                                                                                                                                                                            |

| Length of spec.                                                                                                                                                           | 390 | 385 | 120 | 245 | 400 | 415 | 410 | 95 | 205 | 90 | 190 | 270 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|----|-----|----|-----|-----|
| PCR product(s)                                                                                                                                                            |     | 405 |     |     |     |     |     |    |     |    |     | 430 |
| Well No.                                                                                                                                                                  | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8  | 9   | 10 | 11  | 12  |
| *4009, 4018, 4020, 4024, 4026, 4028, 4032, 4033, 4042, 4044, 4052, 4063, 4071, 4092                                                                                       | ?   |     |     |     | ? ? |     |     |    |     |    |     |     |
| *4010, 4011, 401401-4015, 4021, 4022N, 4025, 4027, 4029, 4035, 4036, 4038, 4040, 4048, 4049, 4053-4058, 4062, 4065, 4067, 4069, 407202, 4074, 4078, 4081-4088, 4090, 4091 | ?   |     |     |     | ?   |     | ?   |    |     |    | 11  |     |
| *4012, 480301-480302, 4805, 4810, 4812-4814                                                                                                                               |     |     |     |     |     |     |     |    | 11  |    |     |     |
| *4013                                                                                                                                                                     | 1   | 2   |     |     |     | 6   |     |    |     |    | 11  |     |
| *4019                                                                                                                                                                     | ?   | ?   |     |     | ?   |     |     |    | 11  |    |     |     |
| *4030, 4034, 4064                                                                                                                                                         | ?   |     |     |     | ?   |     | ?   |    |     |    | 11  |     |
| *4031                                                                                                                                                                     | ?   |     |     |     | ?   |     | ?   |    |     |    |     |     |
| *4037                                                                                                                                                                     | ?   |     |     |     |     |     | ?   |    |     |    | 11  |     |
| *4043, 4050                                                                                                                                                               | 1   |     |     |     | ?   |     | ?   |    | 11  |    |     |     |
| *4045, 4080                                                                                                                                                               | ?   |     |     |     | ?   |     | ?   |    |     |    | 11  |     |
| *4046                                                                                                                                                                     | ?   |     |     |     | ?   |     | ?   |    | 11  |    |     |     |
| *4047                                                                                                                                                                     | ?   |     |     |     |     | ?   |     |    |     |    | 11  |     |
| *4061                                                                                                                                                                     | ?   |     |     |     | ?   |     | ?   |    | 11  |    |     |     |
| *4068                                                                                                                                                                     | ?   |     |     |     | ?   |     | ?   |    |     |    | 11  |     |
| *4075                                                                                                                                                                     | ?   |     |     |     | ?   |     | ?   |    | 11  |    |     |     |
| *4076                                                                                                                                                                     | ?   |     |     |     | ?   |     |     |    |     |    | 11  |     |
| *4089                                                                                                                                                                     | 1   |     |     |     | 5   |     | 7   |    |     |    |     |     |
| *4420, 4447                                                                                                                                                               |     |     |     |     |     |     |     |    |     |    |     |     |
| *4703                                                                                                                                                                     | 1   |     |     |     | 5   | 6   | W   |    |     |    |     |     |
| *4704, 4705                                                                                                                                                               | 1   |     |     |     |     | 6   |     | 8  |     |    |     |     |
| *480101-480102, 4804, 4807, 4809, 4811, 4815, 4816, 4818, 4819                                                                                                            |     |     |     |     |     |     |     |    | 11  |    |     |     |
| *4806, 8101-8104N                                                                                                                                                         |     |     |     |     |     |     |     |    |     |    | 11  |     |
| *4817                                                                                                                                                                     |     |     |     |     |     |     |     |    |     |    |     |     |
| *8201, 8202                                                                                                                                                               |     |     |     |     | 5   |     | 7   |    |     |    |     |     |
| HLA-B allele <sup>4</sup>                                                                                                                                                 |     |     |     |     |     |     |     |    |     |    |     |     |
| Cw*0334                                                                                                                                                                   |     |     |     |     |     |     |     |    |     |    |     |     |
| Cw*0705                                                                                                                                                                   |     |     |     |     |     |     |     |    | W   |    |     |     |
| Well No.                                                                                                                                                                  | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8  | 9   | 10 | 11  | 12  |

Lot No.: **09F**

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| 370 | 120 | 370 | 245 | 100 | 95  | 95  | 95  | 110 | 195 | 235 | 105 | Length of spec.                                                                                                                                                                              |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | 345 |     |     |     | 175 | 235 | 175 |     | 380 |     | 260 | PCR product(s)                                                                                                                                                                               |
| 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | Well No.                                                                                                                                                                                     |
| ?   |     |     |     |     |     |     |     |     |     |     |     | *4009, 4018, 4020, 4024,<br>4026, 4028, 4032, 4033,<br>4042, 4044, 4052, 4063,<br>4071, 4092                                                                                                 |
|     |     | ?   |     |     |     |     |     |     |     |     |     | *4010, 4011, 401401-4015,<br>4021, 4022N, 4025, 4027,<br>4029, 4035, 4036, 4038,<br>4040, 4048, 4049, 4053-<br>4058, 4062, 4065, 4067,<br>4069, 407202, 4074, 4078,<br>4081-4088, 4090, 4091 |
|     |     |     |     |     |     |     |     | 24  |     |     |     | *4012, 480301-480302,<br>4805, 4810, 4812-4814                                                                                                                                               |
|     |     |     |     |     |     |     |     |     |     |     |     | *4013                                                                                                                                                                                        |
|     |     | ?   |     |     |     |     |     |     |     |     |     | *4019                                                                                                                                                                                        |
|     |     | ?   | 16  |     |     |     |     |     |     |     |     | *4030, 4034, 4064                                                                                                                                                                            |
|     |     | ?   |     | 18  |     |     |     |     |     |     |     | *4031                                                                                                                                                                                        |
|     |     | ?   |     |     |     |     |     |     |     |     |     | *4037                                                                                                                                                                                        |
|     |     | ?   |     |     |     |     |     |     |     |     |     | *4043, 4050                                                                                                                                                                                  |
|     |     | ?   |     |     | 18  |     |     |     |     |     |     | *4045, 4080                                                                                                                                                                                  |
|     |     | ?   |     |     |     |     |     | 24  |     |     |     | *4046                                                                                                                                                                                        |
|     |     | ?   |     |     |     |     |     |     |     |     |     | *4047                                                                                                                                                                                        |
|     |     |     | 16  |     |     |     |     |     |     |     |     | *4061                                                                                                                                                                                        |
| W   |     |     |     |     |     |     |     |     |     |     |     | *4068                                                                                                                                                                                        |
|     |     | ?   |     |     |     |     |     |     |     |     |     | *4075                                                                                                                                                                                        |
|     |     |     |     |     |     |     |     |     |     |     |     | *4076                                                                                                                                                                                        |
|     |     | 15  |     |     |     |     |     |     |     |     |     | *4089                                                                                                                                                                                        |
|     |     |     |     | 17  |     |     |     |     |     |     |     | *4420, 4447                                                                                                                                                                                  |
|     |     | 15  |     |     |     |     |     |     |     |     |     | *4703                                                                                                                                                                                        |
|     |     | 15  |     |     |     |     |     |     |     | 23  |     | *4704, 4705                                                                                                                                                                                  |
|     |     |     |     | 18  |     |     |     | 24  |     |     |     | *480101-480102, 4804,<br>4807, 4809, 4811, 4815,<br>4816, 4818, 4819                                                                                                                         |
|     |     |     |     |     | 18  |     |     |     |     |     |     | *4806, 8101-8104N                                                                                                                                                                            |
| 16  |     |     |     |     |     |     |     | 24  |     |     |     | *4817                                                                                                                                                                                        |
|     |     |     |     |     |     |     |     | 22  |     |     |     | *8201, 8202                                                                                                                                                                                  |
|     |     |     |     |     |     |     |     |     |     |     |     | HLA-B allele <sup>4</sup>                                                                                                                                                                    |
|     |     |     | 16  |     |     |     |     |     |     |     |     | Cw*0334                                                                                                                                                                                      |
|     |     |     |     |     |     |     |     |     |     |     |     | Cw*0705                                                                                                                                                                                      |
| 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | Well No.                                                                                                                                                                                     |

Lot No.: **09F**

Lot-specific Information

[www.olerup.com](http://www.olerup.com)

<sup>1</sup>The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells.

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-B\*27 subtyping.

In addition, wells number 2, 6, 10, 13, 14, 18 to 23 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

In the presence of a specific amplification the intensity of the control band often decreases.

<sup>2</sup>The nucleotide position, in the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> or 4<sup>th</sup> exon, matching the specificity-determining 3'-end of the primer is given. Nucleotide numbering as on the [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla) web site. The sequence of the 3 terminal nucleotides of the primer is given.

<sup>3</sup>The nucleotide position, in the 2<sup>nd</sup>, 3<sup>rd</sup> or 4<sup>th</sup> exon or the 3<sup>rd</sup> intron, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Nucleotide numbering as on the [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla) web site. The sequence of the 3 terminal nucleotides of the primer is given.

<sup>4</sup>The sequence of the B\*27051 allele has been shown to be identical to B\*270502.

The sequence of the B\*2722 allele has been shown to be identical to the corrected B\*2706 nucleotide sequence.

<sup>5</sup>Primer mix 2: Specific PCR product of 385 bp in the B\*2739 allele. Specific PCR product of 405 bp in the B\*2702 and B\*2730 and the B\*4012 and B\*4019<sup>2</sup> alleles.

Primer mix 12: Specific PCR product of 270 bp in the B\*2743 allele. Specific PCR product of 430 bp in the B\*2713 allele.

Primer mix 14: Specific PCR product of 120 bp in the B\*2734 and B\*400602 alleles. Specific PCR product of 345 bp in the B\*2717 allele.

Primer mix 18: Specific PCR product of 95 bp in the B\*2732 and B\*0728, 0814 and 4454 alleles. Specific PCR product of 175 bp in the B\*2724 and B\*4031, 4045, 4080, 480101-480102, 4804, 4806, 4807, 4809, 4811, 4815, 4816, 4818, 4819 and 8101- 8104N alleles.

Primer mix 19: Specific PCR fragment of 95 bp in the B\*2735 allele. Specific PCR fragment of 235 bp in the B\*2725, 2738 and B\*9529 alleles.

Primer mix 20: Specific PCR fragment of 95 bp in the B\*2709 allele. Specific PCR fragment of 175 bp in the B\*2736 allele.

Primer mix 22: Specific PCR fragment of 195 bp in the B\*2737 allele. Specific PCR fragment of 380 bp in the B\*2726, 2731 and B\*8201-8202 alleles.

Primer mix 24: Specific PCR fragment of 105 bp in the B\*2718, 2729 and the B\*0727, 0750, 0804, 0817, 1503, 1547, 1549, 1554, 1561, 1562, 1564, 1568, 1569, 1591, 1598, 9503, 9523, 9527, 9531, 9532, 3803, 390201-390202, 3908, 391301-391302, 3923, 3939, 4012, 4046, 4440, 4444, 480101-4805, 4807-4819 and 5518 alleles. Specific PCR fragment of 260 bp in the B\*2728 and B\*1802 alleles.

'w', might be weakly amplified.

'?', nucleotide sequence information not available for the primer matching sequence.

| CELL LINE VALIDATION SHEET |      |          |        |       |            |           |           |           |           |           |           |           |           |           |           |           |           |   |   |   |   |   |   |
|----------------------------|------|----------|--------|-------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---|---|---|---|---|---|
| HLA-B*27 SSP subtyping kit |      |          |        |       |            |           |           |           |           |           |           |           |           |           |           |           |           |   |   |   |   |   |   |
|                            |      |          |        |       |            | Well      |           |           |           |           |           |           |           |           |           |           |           |   |   |   |   |   |   |
|                            |      |          |        |       |            | 1         | 2         | 3         | 4         | 5         | 6         | 7         | 8         | 9         | 10        | 11        | 12        |   |   |   |   |   |   |
|                            |      |          |        |       | Prod. No.: | 200620501 | 200851102 | 200620503 | 200620504 | 200620505 | 200620506 | 200620507 | 200620508 | 200620509 | 200851110 | 200620511 | 200851112 |   |   |   |   |   |   |
|                            |      |          |        |       |            | 200620513 | 200620514 | 200620515 | 200620516 |           |           |           |           |           |           |           |           |   |   |   |   |   |   |
| IHC cell line              |      |          |        |       |            | B*        |           |           |           |           |           |           |           |           |           |           |           |   |   |   |   |   |   |
| 1                          | 9001 | SA       | *0702  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |
| 2                          | 9280 | LK707    | *5201  | *7301 |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |
| 3                          | 9011 | E4181324 | *52011 |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |
| 4                          | 9275 | GU373    | *1510  | *5301 |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |
| 5                          | 9009 | KAS011   | *3701  |       |            | +         | -         | -         | +         | -         | +         | -         | -         | -         | -         | -         | -         | - | - | - | + | - | - |
| 6                          | 9353 | SM       | *3901  | *5101 |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |
| 7                          | 9020 | QBL      | *1801  |       |            | +         | -         | -         | -         | +         | -         | +         | -         | -         | -         | -         | -         | - | - | - | + | - | - |
| 8                          | 9007 | DEM      | *5701  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |
| 9                          | 9026 | YAR      | *3801  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |
| 10                         | 9107 | LKT3     | *5401  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |
| 11                         | 9051 | PITOUT   | *4403  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |
| 12                         | 9052 | DBB      | *5701  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |
| 13                         | 9067 | BTB      | *2705  |       |            | -         | -         | -         | +         | -         | +         | -         | +         | -         | -         | -         | -         | - | - | - | - | - | - |
| 14                         | 9071 | OLGA     | *1501  | *1520 |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |
| 15                         | 9075 | DKB      | *4001  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | - | - | - | - | - | - |
| 16                         | 9037 | SWEIG007 | *4002  |       |            | +         | -         | -         | -         | +         | -         | +         | -         | -         | -         | +         | -         | - | - | - | + | - | - |
| 17                         | 9008 | WILJON   | *1801  |       |            | +         | -         | -         | -         | +         | -         | +         | -         | -         | -         | -         | -         | - | - | - | + | - | - |
| 18                         | 9257 | 32367    | *1401  | *5601 |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |
| 19                         | 9038 | BM16     | *1801  |       |            | +         | -         | -         | -         | +         | -         | +         | -         | -         | -         | -         | -         | - | - | - | + | - | - |
| 20                         | 9059 | SLE005   | *4001  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | - | - | - | - | - | - |
| 21                         | 9064 | AMALA    | *1501  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |
| 22                         | 9056 | KOSE     | *3503  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |
| 23                         | 9124 | IHL      | *4002  | *5602 |            | +         | -         | -         | -         | +         | -         | +         | -         | -         | -         | +         | -         | - | - | - | + | - | - |
| 24                         | 9035 | JBUSH    | *3801  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |
| 25                         | 9049 | IBW9     | *1402  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |
| 26                         | 9285 | WT49     | *5801  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |
| 27                         | 9191 | CH1007   | *0705  | *5101 |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |
| 28                         | 9320 | BEL5GB   | *4402  | *4403 |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |
| 29                         | 9050 | MOU      | *4403  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |
| 30                         | 9021 | RSH      | *4201  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |
| 31                         | 9019 | DUCAF    | *1801  |       |            | -         | -         | -         | -         | +         | -         | +         | -         | -         | -         | -         | -         | - | - | - | + | - | - |
| 32                         | 9297 | HAG      | *4102  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |
| 33                         | 9098 | MT14B    | *4001  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | - | - | - | - | - | - |
| 34                         | 9104 | DHIF     | *3801  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |
| 35                         | 9302 | SSTO     | *4402  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |
| 36                         | 9024 | KT17     | *1501  | *3501 |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |
| 37                         | 9065 | HHKB     | *0702  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |
| 38                         | 9099 | LZL      | *1501  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |
| 39                         | 9315 | CML      | *0801  | *2705 |            | -         | -         | -         | +         | -         | +         | -         | +         | -         | -         | -         | -         | - | - | - | - | - | - |
| 40                         | 9134 | WHONP199 | *1302  | *4601 |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | - | - | - | - | - | - |
| 41                         | 9055 | H0301    | *1402  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |
| 42                         | 9066 | TAB089   | *4601  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |
| 43                         | 9076 | T7526    | *4601  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |
| 44                         | 9057 | TEM      | *3801  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |
| 45                         | 9239 | SHJO     | *4201  | *5001 |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |
| 46                         | 9013 | SCHU     | *0702  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |
| 47                         | 9045 | TUBO     | *5101  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |
| 48                         | 9303 | TER-ND   | *3501  | *4403 |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - |

| CELL LINE VALIDATION SHEET |                |          |        |            |           |           |           |           |           |           |           |           |  |
|----------------------------|----------------|----------|--------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| HLA-B*27 SSP subtyping kit |                |          |        |            |           |           |           |           |           |           |           |           |  |
|                            |                |          |        |            | Well      |           |           |           |           |           |           |           |  |
|                            |                |          |        |            | 17        | 18        | 19        | 20        | 21        | 22        | 23        | 24        |  |
|                            |                |          |        | Prod. No.: | 200620517 | 200620518 | 200620519 | 200735220 | 200620521 | 200735222 | 200620523 | 200735224 |  |
|                            | IHWC cell line |          | B*     |            |           |           |           |           |           |           |           |           |  |
| 1                          | 9001           | SA       | *0702  |            | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 2                          | 9280           | LK707    | *5201  | *7301      | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 3                          | 9011           | E4181324 | *52011 |            | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 4                          | 9275           | GU373    | *1510  | *5301      | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 5                          | 9009           | KAS011   | *3701  |            | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 6                          | 9353           | SM       | *3901  | *5101      | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 7                          | 9020           | QBL      | *1801  |            | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 8                          | 9007           | DEM      | *5701  |            | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 9                          | 9026           | YAR      | *3801  |            | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 10                         | 9107           | LKT3     | *5401  |            | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 11                         | 9051           | PITOUT   | *4403  |            | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 12                         | 9052           | DBB      | *5701  |            | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 13                         | 9067           | BTB      | *2705  |            | -         | -         | -         | -         | -         | -         | +         | -         |  |
| 14                         | 9071           | OLGA     | *1501  | *1520      | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 15                         | 9075           | DKB      | *4001  |            | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 16                         | 9037           | SWEIG007 | *4002  |            | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 17                         | 9008           | WILJON   | *1801  |            | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 18                         | 9257           | 32367    | *1401  | *5601      | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 19                         | 9038           | BM16     | *1801  |            | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 20                         | 9059           | SLE005   | *4001  |            | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 21                         | 9064           | AMALA    | *1501  |            | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 22                         | 9056           | KOSE     | *3503  |            | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 23                         | 9124           | IHL      | *4002  | *5602      | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 24                         | 9035           | JBUSH    | *3801  |            | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 25                         | 9049           | IBW9     | *1402  |            | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 26                         | 9285           | WT49     | *5801  |            | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 27                         | 9191           | CH1007   | *0705  | *5101      | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 28                         | 9320           | BEL5GB   | *4402  | *4403      | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 29                         | 9050           | MOU      | *4403  |            | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 30                         | 9021           | RSH      | *4201  |            | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 31                         | 9019           | DUCAF    | *1801  |            | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 32                         | 9297           | HAG      | *4102  |            | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 33                         | 9098           | MT14B    | *4001  |            | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 34                         | 9104           | DHIF     | *3801  |            | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 35                         | 9302           | SSTO     | *4402  |            | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 36                         | 9024           | KT17     | *1501  | *3501      | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 37                         | 9065           | HHKB     | *0702  |            | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 38                         | 9099           | LZL      | *1501  |            | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 39                         | 9315           | CML      | *0801  | *2705      | -         | -         | -         | -         | -         | -         | +         | -         |  |
| 40                         | 9134           | WHONP199 | *1302  | *4601      | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 41                         | 9055           | H0301    | *1402  |            | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 42                         | 9066           | TAB089   | *4601  |            | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 43                         | 9076           | T7526    | *4601  |            | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 44                         | 9057           | TEM      | *3801  |            | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 45                         | 9239           | SHJO     | *4201  | *5001      | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 46                         | 9013           | SCHU     | *0702  |            | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 47                         | 9045           | TUBO     | *5101  |            | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 48                         | 9303           | TER-ND   | *3501  | *4403      | -         | -         | -         | -         | -         | -         | -         | -         |  |

**CERTIFICATE OF ANALYSIS****Olerup SSP® HLA-B\*27 SSP**

**Product number:** 101.521-24/04 – including *Taq* pol.  
**Lot number:** 09F  
**Expiry date:** 2010-September-01  
**Number of tests:** 24 test – Product No. 101.521-24  
4 tests – Product No. 101.521-04  
**Number of wells per test:** 24

**Well specifications:**

| Well No. | Production No. | Well No. | Production No. | Well No. | Production No. |
|----------|----------------|----------|----------------|----------|----------------|
| 1        | 2006-205-01    | 9        | 2006-205-09    | 17       | 2006-205-17    |
| 2        | 2008-511-02    | 10       | 2008-511-10    | 18       | 2006-205-18    |
| 3        | 2006-205-03    | 11       | 2006-205-11    | 19       | 2006-205-19    |
| 4        | 2006-205-04    | 12       | 2008-511-12    | 20       | 2007-352-20    |
| 5        | 2006-205-05    | 13       | 2006-205-13    | 21       | 2006-205-21    |
| 6        | 2006-205-06    | 14       | 2006-205-14    | 22       | 2007-352-22    |
| 7        | 2006-205-07    | 15       | 2006-205-15    | 23       | 2006-205-23    |
| 8        | 2006-205-08    | 16       | 2006-205-16    | 24       | 2007-352-24    |

The specificity of each primer solution of the kit has been tested against 48 well characterized IHWC cell line DNAs.

No DNAs carrying the alleles to be amplified by primer solutions 3, 10, 12 to 14, 16 to 20, 22 and 24 were available. The specificities of the primers in primer solutions 13, 16, 17, 19, 20, 22 and 24 were tested by separately adding one additional 5'-primer, respectively one additional 3'-primer. Additional 3'-primers in primer solution 5 and 10 were tested by separately adding one additional 5'-primer. In primer solutions 3 and 14 it was only possible to test the 5'-primers, the 3'-primers were not possible to test. In primer solution 12 it was only possible to test the 3'-primers, the 5'-primers were not possible to test.

**Results:** No false positive or false negative amplifications were obtained.

**Date of approval:** 2009-May-26

**Approved by:**

**Quality Control, Supervisor**

## Declaration of Conformity

**Product name:** *Olerup* SSP® HLA-B\*27  
**Product number:** 101.521-24/04  
**Lot number:** 09F

**Intended use:** HLA-B\*27 high resolution histocompatibility testing

**Manufacturer:** *Olerup* SSP AB  
Hasselstigen 1  
SE-133 33 Saltsjöbaden, Sweden  
**Phone:** +46-8-717 88 27  
**Fax:** +46-8-717 88 18

We, *Olerup* SSP AB, hereby declare that this product, to which this Declaration of Conformity relates is in conformity with the following Standard(s) and other normative document(s) ISO 9001:2000 and ISO 13485:2003, following the provisions of the 98/79/EC Directive on *in vitro* diagnostic medical devices, Annex II List B, conformity assessed using Annex IV, as transposed into the national laws of the Member States of the European Union.

The Technical Documentation File is maintained at *Olerup* SSP AB, Hasselstigen 1, SE-133 33 Saltsjöbaden, Sweden.

The Authorized Representative located within the Community is: *Olerup* SSP AB.

Notified Body: Lloyd's Register Quality Assurance Limited, Hiramford, Middlemarch Office Village, Siskin Drive, Coventry CV3 4FJ, United Kingdom. (Notified Body number: 0088.)

Saltsjöbaden, Sweden  
2009-May-26

Olle Olerup  
Managing Director







Lot No.: **09F**

Lot-specific Information

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