

101.549-06 – including *Taq* polymerase, IFU-01  
101.549-06u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: **89Y**

Lot-specific information

## **Olerup SSP® HLA-B\*53**

|                                  |                                                                                             |
|----------------------------------|---------------------------------------------------------------------------------------------|
| Product number:                  | 101.549-06 – including <i>Taq</i> polymerase<br>101.549-06u – without <i>Taq</i> polymerase |
| Lot number:                      | 89Y                                                                                         |
| Expiry date:                     | 2018-March-01                                                                               |
| Number of tests:                 | 6                                                                                           |
| Number of wells per test:        | 23+1                                                                                        |
| Storage - pre-aliquoted primers: | dark at -20°C                                                                               |
| - PCR Master Mix:                | -20°C                                                                                       |
| - Adhesive PCR seals             | RT                                                                                          |
| - Product Insert                 | RT                                                                                          |

**This Product Description is only valid for Lot No. 89Y.**

Complete product documentation consists of generic Instructions for Use (IFU), lot specific Product Insert, Worksheet and Certificate.

### **CHANGES COMPARED TO THE PREVIOUS OLERUP SSP® HLA-B\*53 LOT (86V).**

The HLA-B\*53 kit is updated for new alleles to enable separation of:

- Confirmed<sup>1</sup> alleles as listed in the IMGT/HLA database
- Polymorphisms in exons outside of the region encoding the peptide binding domain
- Null and Alternatively expressed alleles

A well containing Negative Control primer pairs has been added.

The format of the Product Insert and Worksheet have been changed.

<sup>1</sup>As described in section Uniquely Identified Alleles.

The HLA-B\*53 primer set, specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup SSP®* HLA-B\*53 lot was made (**Lot No. 86V**). The kit design is based on IMGT/HLA database 3.21.1.

As of lot series V, the Specificity Table is included in the lot-specific Product Insert, and the Interpretation Table is included in the Worksheet.

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

| Well | 5'-primer | 3'-primer | rationale                                                                                 |
|------|-----------|-----------|-------------------------------------------------------------------------------------------|
| 13   | Added     | -         | 5'-primer added for the allelic resolution of the B*53 alleles and the B*58:01:14 allele. |
| 14   | -         | Added     | 3'-primer added for allelic resolution of the B*55:39 allele.                             |
| 17   | Added     | -         | 5'-primer added for allelic resolution of the B*55:39 allele.                             |
| 22   | Added     | Added     | Primer pair added for the B*55:37 allele.                                                 |

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Well **24** contains Negative Control primer pairs, that will amplify more than 95% of the *Olerup SSP®* HLA Class I, DRB, DQB1, DPB1 and DQA1 amplicons as well as all the amplicons generated by the control primer pairs matching the human growth hormone gene.

HLA-specific PCR product sizes range from 75 to 200 base pairs.  
The PCR product generated by the positive control primer pair is 430 base pairs.

| Length of PCR product        | 105                  | 200                     | 105                  | 80                   | 75                   | 80                   | 85                   |
|------------------------------|----------------------|-------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| <b>5'-primer<sup>1</sup></b> | <b>164</b>           | <b>340</b>              | <b>440</b>           | <b>45</b>            | <b>45</b>            | <b>43</b>            | <b>36</b>            |
|                              | 5'-CAC <sup>3'</sup> | 5'-Agg <sup>3'</sup>    | 5'-TTA <sup>3'</sup> | 5'-Tgg <sup>3'</sup> | 5'-Tgg <sup>3'</sup> | 5'-Tgg <sup>3'</sup> | 5'-TAC <sup>3'</sup> |
|                              |                      |                         |                      |                      |                      |                      | <b>36</b>            |
|                              |                      |                         |                      |                      |                      |                      | 5'-TAT <sup>3'</sup> |
| <b>3'-primer<sup>2</sup></b> | <b>231</b>           | <b>2<sup>nd</sup> I</b> | <b>507</b>           | <b>59</b>            | <b>58</b>            | <b>57</b>            | <b>47</b>            |
|                              | 5'-TgC <sup>3'</sup> | 5'-AAA <sup>3'</sup>    | 5'-TTg <sup>3'</sup> | 5'-CTC <sup>3'</sup> | 5'-ggC <sup>3'</sup> | 5'-CTC <sup>3'</sup> | 5'-ACA <sup>3'</sup> |
|                              |                      |                         |                      |                      |                      |                      | <b>48</b>            |
|                              |                      |                         |                      |                      |                      |                      | 5'-gCA <sup>3'</sup> |
|                              |                      |                         |                      |                      |                      |                      | <b>48</b>            |
|                              |                      |                         |                      |                      |                      |                      | 5'-gCC <sup>3'</sup> |
|                              |                      |                         |                      |                      |                      |                      | <b>52</b>            |
|                              |                      |                         |                      |                      |                      |                      | 5'-TgT <sup>3'</sup> |
| <b>A*</b>                    | +                    | +                       | +                    |                      |                      |                      |                      |
| <b>B*</b>                    | +                    | +                       | +                    |                      |                      |                      |                      |
| <b>C*</b>                    | +                    | +                       | +                    |                      |                      |                      |                      |
| <b>DRB1</b>                  |                      |                         |                      | +                    | +                    |                      |                      |
| <b>DRB3</b>                  |                      |                         |                      | +                    | +                    |                      |                      |
| <b>DRB5</b>                  |                      |                         |                      | +                    |                      |                      |                      |
| <b>DQB1</b>                  |                      |                         |                      |                      | +                    |                      |                      |
| <b>DPB1</b>                  |                      |                         |                      |                      |                      | +                    |                      |
| <b>DQA1</b>                  |                      |                         |                      |                      |                      |                      | +                    |

<sup>1</sup>The nucleotide position for HLA class I genes and the codon for HLA class II genes, in the 2<sup>nd</sup> or 3<sup>rd</sup> exon, matching the specificity-determining 3'-end of the primer is given. Nucleotide and codon 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>2</sup>The nucleotide position for HLA class I genes and the codon for HLA class II genes, in the 2<sup>nd</sup> or 3<sup>rd</sup> exon or the 2<sup>nd</sup> intron, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Nucleotide and codon 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.

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## PRODUCT DESCRIPTION

### HLA-B\*53 SSP typing

#### CONTENT

The primer set contains 5'- and 3'-primers for identifying the B\*53:01 to B\*53:39 alleles.

#### PLATE LAYOUT

Each HLA-B\*53 test consists of 24 PCR reactions in a 24 well cut PCR plate.

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

The 24 well PCR plate is marked with 'HLA-B\*53' in silver/gray ink.

Well No. 1 is marked with the Lot No. '89Y'.

Wells 1 to 23 – HLA-B\*53 high resolution primers.

Well 24 – Negative Control (NC).

A faint row of numbers is seen between wells 1 and 2 or wells 7 and 8 of the PCR trays. These stem from the manufacture of the trays, and should be disregarded.

The PCR plates are heat-sealed with a PCR-compatible foil.

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

#### INTERPRETATION

Due to the sharing of sequence motifs between HLA-B alleles non-HLA-B\*53 alleles will be amplified by all B\*53 primer mixes.

In addition, a few HLA-A and HLA-C alleles will be amplified by primer mixes 2, 4 to 7, 9 to 11, 14 and 20.

For further details see Specificity Table.

#### UNIQUELY IDENTIFIED ALLELES

All the HLA-B\*53, i.e. **B\*53:01 to B\*53:39**, recognized by the HLA Nomenclature Committee in August 2015<sup>1,2</sup> will be amplified by the primers in the HLA-B\*53 SSP kit<sup>3</sup>.

The HLA-B\*53 kit enables separation of the confirmed HLA-B\*53 alleles as listed in the IMGT/HLA database. An HLA allele is listed as confirmed by IMGT/HLA if it has been sequenced by more than a single laboratory or from multiple sources. Current allele confirmation status for HLA-B\*53 alleles is listed below.

The HLA-B\*53 kit also enables identification of polymorphisms in exons outside of the region encoding the peptide binding domain and of null and alternatively expressed alleles.

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#### Lot-specific information

The HLA-B\*53 subtyping cannot distinguish the following silent mutations: the B\*53:01:01-53:01:11 alleles, the B\*53:08:01-53:08:02 or the B\*53:17:01-53:17:02 alleles.

<sup>1</sup>HLA-B alleles listed on the IMGT/HLA web page 2015-August-11, release 3.21.1, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

<sup>2</sup>Alleles that have been deleted from or renamed in the official WHO HLA Nomenclature up to and including the last IMGT/HLA database release can be retrieved from web page <http://hla.alleles.org/alleles/deleted.html>.

<sup>3</sup>The B\*53:03 and the 35:203 alleles give rise to identical amplification patterns with the HLA-B\*53 subtyping kit. These alleles can be distinguished by the HLA-B low resolution kit and/or the HLA-B\*35 subtyping kit.

### ALLELE CONFIRMATION STATUS

| Allele            | Status <sup>1</sup> | Allele            | Status <sup>1</sup> | Allele         | Status <sup>1</sup> |
|-------------------|---------------------|-------------------|---------------------|----------------|---------------------|
| <b>B*53:01:01</b> | <b>Confirmed</b>    | B*53:10           | Unconfirmed         | <b>B*53:29</b> | <b>Confirmed</b>    |
| B*53:01:02        | Unconfirmed         | B*53:11           | Unconfirmed         | B*53:30        | Unconfirmed         |
| B*53:01:03        | Unconfirmed         | B*53:12           | Unconfirmed         | B*53:31        | Unconfirmed         |
| B*53:01:04        | Unconfirmed         | B*53:13           | Unconfirmed         | B*53:32        | Unconfirmed         |
| <b>B*53:01:05</b> | <b>Confirmed</b>    | B*53:14           | Unconfirmed         | <b>B*53:33</b> | <b>Confirmed</b>    |
| <b>B*53:01:06</b> | <b>Confirmed</b>    | <b>B*53:15</b>    | <b>Confirmed</b>    | B*53:34        | Unconfirmed         |
| <b>B*53:01:07</b> | <b>Confirmed</b>    | B*53:16           | Unconfirmed         | B*53:35        | Unconfirmed         |
| B*53:01:08        | Unconfirmed         | B*53:17:01        | Unconfirmed         | B*53:36        | Unconfirmed         |
| B*53:01:09        | Unconfirmed         | <b>B*53:17:02</b> | <b>Confirmed</b>    | B*53:37        | Unconfirmed         |
| B*53:01:10        | Unconfirmed         | <b>B*53:18</b>    | <b>Confirmed</b>    | B*53:38        | Unconfirmed         |
| B*53:01:11        | Unconfirmed         | <b>B*53:19</b>    | <b>Confirmed</b>    | B*53:39        | Unconfirmed         |
| B*53:02           | Unconfirmed         | <b>B*53:20</b>    | <b>Confirmed</b>    |                |                     |
| B*53:03           | Unconfirmed         | B*53:21           | Unconfirmed         |                |                     |
| B*53:04           | Unconfirmed         | <b>B*53:22</b>    | <b>Confirmed</b>    |                |                     |
| <b>B*53:05</b>    | <b>Confirmed</b>    | B*53:23           | Unconfirmed         |                |                     |
| B*53:06           | Unconfirmed         | <b>B*53:24</b>    | <b>Confirmed</b>    |                |                     |
| B*53:07           | Unconfirmed         | B*53:25           | Unconfirmed         |                |                     |
| B*53:08:01        | Unconfirmed         | <b>B*53:26</b>    | <b>Confirmed</b>    |                |                     |
| B*53:08:02        | Unconfirmed         | B*53:27           | Unconfirmed         |                |                     |
| <b>B*53:09</b>    | <b>Confirmed</b>    | B*53:28           | Unconfirmed         |                |                     |

<sup>1</sup>Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2015-August-11, release 3.21.1, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

### RESOLUTION IN HOMO- AND HETEROZYGOTES

Results file with resolution in HLA-B\*53 homo- and heterozygotes is available upon request.

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## SPECIFICITY TABLE

### HLA-B\*53 SSP subtyping

Specificities and sizes of the PCR products of the 23+1 primer mixes used for HLA-B\*53 SSP subtyping

| Primer Mix           | Size of spec. PCR product <sup>1</sup> | Size of control band <sup>2</sup> | Amplified HLA-B*53 alleles <sup>3</sup>                                 | Other amplified HLA Class I alleles <sup>4</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------|----------------------------------------|-----------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b>             | 145 bp                                 | <b>800 bp</b>                     | *53:01:01-53:02, 53:04-53:08:02, 53:10, 53:14-53:29, 53:32-53:35, 53:37 | *18:67, 37:34, 38:06-38:07, 44:06, 49:03, 51:01:01:01-51:01:39, 51:01:41-51:24:05, 51:26-51:46, 51:48-51:53, 51:55-51:77, 51:79-51:103, 51:105-51:111, 51:113-51:146, 51:148-51:190, 52:01:01:01-52:01:24, 52:01:27-52:01:28, 52:03-52:15, 52:17-52:19, 52:21-52:31:02, 52:33-52:45, 52:47-52:50, 58:01:01:01-58:02, 58:04-58:16:02, 58:18-58:29, 58:31N-58:35, 58:37-58:43, 58:45:01-58:63, 58:65-58:69, 58:72N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>2<sup>6</sup></b> | 270 bp                                 | 1070 bp                           | *53:02, 53:06, 53:28                                                    | *14:10, 18:22, 18:69, 18:105, 35:21, 35:24:01-35:24:02, 35:81, 35:96, 35:109, 35:157, 35:188, 35:190, 35:233, 35:287, 37:04:01-37:04:02, 40:28, 44:190, 44:203, 51:04, 51:46, 51:56:01-51:56:03, 51:139, 57:14:01-57:14:02, 58:09, <b>C*15:39</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>3<sup>8</sup></b> | 135 bp                                 | <b>800 bp</b>                     | *53:03, 53:05, 53:16, 53:33                                             | *18:54, 18:67, 18:108, 27:52, 35:203, 37:01:01-37:01:05, 37:01:07-37:05, 37:07-37:09, 37:12-37:13, 37:15-37:27, 37:30N-37:33N, 37:35-37:36, 37:38-37:56, 51:185, 52:09                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                      | 290 bp                                 |                                   | *53:15                                                                  | *08:49, 08:60, 08:76, 08:129, 42:13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>4</b>             | 190 bp                                 | <b>800 bp</b>                     | *53:04, 53:07, 53:18, 53:31, 53:33                                      | *13:03, 13:48, 14:19, 14:27, 15:58, 15:73, 15:133, 15:137, 15:229, 15:253, 15:303, 35:03:01-35:03:05, 35:03:07-35:03:21, 35:06, 35:13, 35:36, 35:38, 35:55-35:56, 35:59, 35:70, 35:74-35:75, 35:84-35:85, 35:98, 35:106, 35:109, 35:127-35:128, 35:136, 35:150:01-35:153, 35:155-35:156, 35:160, 35:163, 35:167, 35:169, 35:179, 35:181, 35:193, 35:195, 35:198, 35:204-35:205, 35:221, 35:223, 35:231, 35:235-35:237, 35:242-35:243, 35:246, 35:256-35:257, 35:261, 35:267, 35:274, 35:278-35:279, 35:281-35:282, 35:290-35:291, 35:296, 37:39, 37:48, 38:30, 39:32-39:33, 39:74, 40:71, 44:10, 44:15, 44:18, 44:117 <sup>w</sup> , 44:140, 44:178, 45:01:01-45:02, 45:04-45:07, 45:11-45:16, 46:11, 46:61, 49:01:01-49:01:07, 49:02-49:03, 49:06, 49:08-49:14, 49:16-49:17, 49:19N-49:39, 50:01:01-50:02, 50:04-50:13, 50:15-50:19, 50:32, 50:34-50:43, 51:13:01-51:13:02, 51:15, 51:62, 51:92:01-51:92:02, 51:106, 51:172, 52:14, 52:25, 54:03, 54:33, 56:01:01:01-56:01:04, 56:01:06-56:02, 56:04, 56:07-56:08, 56:11, 56:13-56:14, 56:16-56:17, 56:20:01-56:20:02, 56:22, 56:24-56:30, 56:33-56:49, 57:76, 58:33-58:34, 59:04, 82:01-82:03, <b>C*03:19<sup>w</sup>, C*03:26<sup>w</sup>, C*03:102<sup>w</sup>, C*03:250, C*03:267, C*04:08, C*04:34, C*04:147, C*05:27, C*05:39, C*08:41, C*08:115, C*15:15, C*17:07, C*18:08</b> |
| <b>5</b>             | 150 bp                                 | <b>800 bp</b>                     | *53:09, 53:11-53:13, 53:22,                                             | *08:28, 08:35, 08:37, 08:89, 08:107, 13:58, 15:51, 15:179:01-15:179:02, 15:199, 15:218Q, 18:09, 18:56,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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|                        |        |               |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------|--------|---------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        |        |               | 53:31, 53:36,<br>53:38               | 18:113, 35:115, 35:260, 37:10, 37:35, 37:56, 41:24,<br>41:30, 42:09, 44:17, 44:83, 44:134, 45:09, 51:54,<br>51:78:01-51:78:02, 51:97, 52:20, 57:24, <b>C*07:68,</b><br><b>C*07:140, C*07:151, C*07:302</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>6<sup>6</sup></b>   | 205 bp | <b>800 bp</b> | *53:02, 53:06,<br>53:28              | *15:38:01-15:38:02, 15:185, 15:335, 18:01:01:01-<br>18:09, 18:12-18:15, 18:17N-18:20, 18:22-18:25, 18:27-<br>18:34, 18:36-18:40, 18:42-18:55, 18:57, 18:59-18:60,<br>18:62-18:100, 18:102-18:109, 18:111-18:113, 35:21,<br>35:24:01-35:24:02, 35:188, 35:190, 35:287, 39:43,<br>51:37, 51:45, 51:63, 51:97, 52:39, 56:31, 57:14:01-<br>57:14:02, 58:09, <b>C*12:87</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                        | 235 bp |               | *53:05, 53:12,<br>53:16, 53:33       | *08:117, 13:25, 15:115, 44:15, 44:109, 44:176                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>7<sup>5,6</sup></b> | 125 bp | <b>800 bp</b> | *53:07, 53:10,<br>53:26              | *08:49, 08:59:01, 13:79, 15:32:01-15:32:02, 15:299,<br>18:18, 35:108:01, 37:01:01-37:01:11, 37:03N-<br>37:06:02, 37:08, 37:10-37:11, 37:13-37:18, 37:20-<br>37:43, 37:45-37:55, 39:09:01-39:09:03, 39:88, 44:209,<br><b>C*07:168</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>8</b>               | 170 bp | 1070 bp       | *53:06, 53:08:01-<br>53:08:02, 53:28 | *07:02:01-07:24, 07:26-07:47, 07:49N-07:50, 07:52-<br>07:154, 07:156-07:163, 07:165-07:201N, 07:203-<br>07:208, 07:210-07:219, 07:221-07:222, 07:224-07:225,<br>07:227-07:234, 07:236-07:249, 07:251N-07:256,<br>08:20, 08:53:01-08:53:02, 08:79, 13:16, 13:20, 13:31,<br>13:48, 13:62, 14:01:01-14:40, 14:42, 14:44-14:49,<br>15:01:01:01-15:01:04, 15:01:06-15:04:02, 15:06-15:19,<br>15:21, 15:23-15:30, 15:32:01-15:40, 15:42-15:47:02,<br>15:49-15:50, 15:53-15:54, 15:56-15:58, 15:60-15:74,<br>15:76-15:82, 15:85, 15:87, 15:89-15:90, 15:92-15:99,<br>15:101-15:104, 15:106, 15:108-15:110, 15:112-15:113,<br>15:115-15:122, 15:125-15:129, 15:131-15:135, 15:137-<br>15:144, 15:146-15:150, 15:152-15:154, 15:156-15:161,<br>15:163-15:175, 15:177-15:178, 15:180-15:184, 15:187,<br>15:189-15:199, 15:201-15:217, 15:219-15:221, 15:223,<br>15:225-15:234, 15:236, 15:238-15:249, 15:251-15:274,<br>15:276-15:282, 15:284-15:311, 15:313-15:331, 15:333-<br>15:347, 15:353-15:363, 18:15, 18:19, 18:21, 18:30,<br>18:57, 18:101, 27:04:01-27:04:04, 27:06, 27:10, 27:15,<br>27:18, 27:20-27:21, 27:24-27:25, 27:40, 27:54, 27:63,<br>27:66N, 27:68-27:69, 27:79, 27:86, 27:91-27:92,<br>27:100, 27:103, 27:105-27:109, 27:112-27:115,<br>27:120, 27:138, 35:11:01-35:11:03, 35:14:01-35:14:02,<br>35:21, 35:43:01-35:44, 35:58, 35:67, 35:79, 35:86,<br>35:96, 35:99, 35:102, 35:117-35:118, 35:135, 35:167,<br>35:185, 35:188, 35:213, 35:232, 35:265, 35:277,<br>37:07, 37:13, 38:10, 38:32, 39:18, 39:35-39:36, 40:05,<br>40:15-40:16, 40:23, 40:26, 40:28, 40:32, 40:51, 40:95,<br>40:98, 40:148, 40:158, 40:161, 40:174, 40:183,<br>40:198, 40:309, 42:19, 44:76, 44:79:01-44:79:02,<br>44:146, 44:150, 46:01:01-46:05, 46:07N-46:08, 46:10,<br>46:12, 46:14-46:17, 46:20, 46:22-46:24, 46:26-46:32,<br>46:34-46:42, 46:44-46:64, 47:10, 48:05, 48:08, 48:15,<br>48:25, 49:01:01-49:10, 49:12-49:14, 49:16-49:39,<br>50:01:01-50:02, 50:04-50:20, 50:31-50:43,<br>51:01:01:01-51:04, 51:06:01-51:07:02, 51:11N-51:14,<br>51:16-51:18, 51:21-51:24:05, 51:26-51:30, 51:32-<br>51:39, 51:41N, 51:43, 51:45-51:46, 51:48-51:52,<br>51:55-51:72, 51:74-51:80, 51:82-51:92:02, |

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|-------------------|--------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10                | 150 bp | 1070 bp | *53:01:01-53:03, 53:05, 53:09-53:10, 53:11 <sup>w</sup> , 53:12-53:15, 53:16 <sup>w</sup> , 53:17:01-53:18, 53:20-53:21, 53:23, 53:24 <sup>w</sup> , 53:25-53:27, 53:29-53:30, 53:32, 53:34-53:35, 53:37-53:39 | 58:39N-58:45:02, 58:47-58:69, 58:72N, 59:04, 78:04, 82:01-82:03, 83:01, <b>C*03:36, C*03:77, C*03:187, C*03:296, C*04:34</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| 11 <sup>5,7</sup> | 85 bp  | 800 bp  | *53:01:01-53:03, 53:05-53:06, 53:08:01-53:18, 53:20-53:30, 53:32, 53:34-53:35, 53:37-53:39                                                                                                                     | *07:235, 07:237, 13:04, 13:10 <sup>w</sup> , 13:26:01-13:26:02, 13:72, 15:01:01:01-15:01:04, 15:01:06-15:01:39, 15:02:01 <sup>w</sup> -15:02:09 <sup>w</sup> , 15:03:01-15:05:02, 15:06 <sup>w</sup> , 15:07:01-15:08:02, 15:11:01-15:12, 15:13:01 <sup>w</sup> -15:13:02 <sup>w</sup> , 15:14-15:16:03, 15:18:01-15:20, 15:21 <sup>w</sup> , 15:23-15:24:02, 15:25:01 <sup>w</sup> -15:25:03 <sup>w</sup> , 15:26N-15:29, 15:31 <sup>w</sup> , 15:32:01-15:32:02, 15:34-15:35, 15:36 <sup>w</sup> , 15:38:01-15:40, 15:43, 15:44 <sup>w</sup> , 15:46-15:47:02, 15:49-15:54, 15:55 <sup>w</sup> , 15:56-15:57, 15:60-15:62, 15:64:01-15:71, 15:74-15:76, 15:79N-15:82, 15:84-15:85, 15:87, 15:88 <sup>w</sup> -15:89 <sup>w</sup> , 15:91-15:98, 15:101-15:105, 15:106 <sup>w</sup> ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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| <b>19<sup>5</sup></b>   | 125 bp           | 1070 bp | *53:23                  | *07:65, 07:134, 08:32, 18:03, 35:29:01-35:29:02, 35:69, 35:76, 35:136, 35:186 <sup>w</sup> , 35:229, 35:294, 37:37, 39:19:01-39:19:02, 46:40:01 <sup>w</sup> -46:40:02 <sup>w</sup> , 51:20, 56:06, 56:45, 78:01:01-78:01:02, 78:03, 78:07-78:08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>20<sup>5</sup></b>   | 60 bp            | 1070 bp | *53:11, 53:16, 53:24    | *07:20, 07:24, 07:60, 07:220, 15:65, 15:84, 15:99, 15:221, 15:237, 35:08:01-35:08:08, 35:18, 35:45, 35:61:01-35:61:02, 35:80, 35:99-35:100, 35:105, 35:142, 35:156, 35:158, 35:164, 35:172, 35:174, 35:176, 35:187, 35:192, 35:206, 35:225, 35:229, 35:232, 37:39, 39:33, 44:28:01-44:28:02, 44:76, 46:62, 51:05, 51:29, 51:54, 52:24, 57:02:01-57:02:02, 57:04-57:05, 57:12, 57:19, 57:28N, 57:30, 57:42, 57:63, 58:22, <b>C*01:107, C*03:28, C*03:49, C*04:08, C*04:147, C*05:39, C*08:115, C*14:20, C*18:08</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>21<sup>5,7</sup></b> | 125 bp           | 1070 bp | *53:30                  | *35:01:10, 35:04:02, 35:46-35:47, 35:154, 35:207, 35:217, 35:251, 35:257, 35:278, 40:01:06, 40:07-40:08, 40:13, 40:68, 40:106, 40:162, 40:220, 40:232, 51:05 <sup>w</sup> , 51:09:01-51:09:02, 51:31, 51:40, 51:54 <sup>w</sup> , 51:73-51:74, 51:93, 51:108, 51:122, 51:139, 52:03, 52:10:01-52:10:03, 78:04, 78:08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>22<sup>5</sup></b>   | 115 bp<br>205 bp | 1070 bp | *53:37<br>*53:19, 53:36 | *35:02:01-35:02:07, 35:81, 35:83, 35:95, 35:129N, 35:146, 35:154, 35:162, 35:172, 35:182-35:184,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

101.549-06 – including *Taq* polymerase, IFU-01  
101.549-06u – without *Taq* polymerase, IFU-02

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Lot No.: **89Y**

Lot-specific information

|                       |        |         |                         |                                                                        |
|-----------------------|--------|---------|-------------------------|------------------------------------------------------------------------|
|                       |        |         |                         | 35:211, 35:220, 35:258, 35:270, 35:273, 35:285,<br>45:12, 50:36, 58:65 |
| <b>23</b>             | 165 bp | 1070 bp | *53:29                  | *35:208, 44:96, 44:153, 55:14, 57:01:19, 57:14:01,<br>58:14            |
| <b>24<sup>9</sup></b> | -      | -       | <b>Negative Control</b> |                                                                        |

<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\*53 SSP typings.

When the primers in a primer mix can give rise to HLA-specific PCR products of more than one length this is indicated if the size difference is more than 20 base pairs. Size differences of 20 base pairs or less are not given. For high resolution SSP kits, the alleles listed are specified according to amplicon length. 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 internal positive control bands are 1070 or 800 base pairs respectively, well distribution as outlined in the table. Well number 1 contains the shorter, 800 bp, internal positive control band. The well distribution of the internal controls can help in orientation of the kit on gel photo, as well as allow for kit identification. In the presence of a specific amplification the intensity of the control band often decreases.

<sup>3</sup>For several HLA Class I alleles 1<sup>st</sup> and/or 4<sup>th</sup> exon(s) and beyond, as well as intron nucleotide sequences, are not available. In these instances it is not known whether some of the primers of the SSP sets are completely matched with the target sequences or not. Assumption is made that unknown sequences in these regions are conserved within allelic groups.

<sup>4</sup>Due to the sharing of sequence motifs between HLA-B alleles non-HLA-B\*53 alleles will be amplified by all B\*53 primer mixes. In addition, a few HLA-A and HLA-C alleles will be amplified by primer mixes 2, 4 to 7, 9 to 11, 14 and 20.

<sup>5</sup>HLA-specific PCR products shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR products.

<sup>6</sup>Primer mixes 2, 6 and 7 may have tendencies of unspecific amplifications.

<sup>7</sup>Primer mixes 11, 14, 18 and 21 may give rise to a lower yield of HLA-specific PCR product than the other HLA-B\*53 primer mixes.

<sup>8</sup>Primer mix 3 has a tendency to giving rise to primer oligomer formation.

<sup>9</sup>Primer mix 24 contains a negative control, which will amplify more than 95% of HLA amplicons as well as the amplicons generated by the control primer pairs matching the human growth hormone gene. HLA-specific PCR product sizes range from 75 to 200 base pairs and the PCR product generated by the HGH positive control primer pair is 430 base pairs.

'w', may be weakly amplified.



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Lot No.: **89Y**

Lot-specific information

## PRIMER SPECIFICATION

| Well No.                                 | 1                | 2                | 3                | 4                | 5                | 6                | 7                | 8                              | 9                | 10               | 11               | 12               |
|------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------------------|------------------|------------------|------------------|------------------|
| Length of spec. PCR product              | 145              | 270              | 135<br>290       | 190              | 150              | 205<br>235       | 125              | 170                            | 75               | 150              | 85               | 105              |
| Length of int. pos. control <sup>1</sup> | 800              | 1070             | 800              | 800              | 800              | 800              | 800              | 1070                           | 1070             | 1070             | 800              | 1070             |
| 5'-primer(s) <sup>2</sup>                | 206<br>5'-gAC 3' | 355<br>5'-TCA 3' | 206<br>5'-gAC 3' | 49<br>5'-CAG 3'  | 206<br>5'-gAC 3' | 106<br>5'-CCA 3' | 106<br>5'-CCA 3' | 527<br>5'-TgA 3'               | 527<br>5'-TgT 3' | 419<br>5'-gTC 3' | 419<br>5'-gTC 3' | 357<br>5'-Tgg 3' |
|                                          |                  |                  | 355<br>5'-TCA 3' | 419<br>5'-gTT 3' | 419<br>5'-gTC 3' | 419<br>5'-gTC 3' | 368<br>5'-gTC 3' |                                |                  |                  |                  |                  |
|                                          |                  |                  |                  | 419<br>5'-gTT 3' |                  |                  | 368<br>5'-gTC 3' |                                |                  |                  |                  |                  |
|                                          |                  |                  |                  | 419<br>5'-gTT 3' |                  |                  |                  |                                |                  |                  |                  |                  |
| 3'-primer(s) <sup>3</sup>                | 309<br>5'-ATC 3' | 583<br>5'-gTg 3' | 301<br>5'-gTC 3' | 79<br>5'-gTA 3'  | 309<br>5'-gTg 3' | 302<br>5'-ggC 3' | 180<br>5'-TCC 3' | 3 <sup>rd</sup> I<br>5'-TAT 3' | 559<br>5'-CAG 3' | 527<br>5'-CCA 3' | 463<br>5'-gCT 3' | 420<br>5'-gCT 3' |
|                                          |                  |                  | 302<br>5'-ggC 3' | 559<br>5'-CAG 3' | 538<br>5'-gTC 3' | 583<br>5'-gTg 3' | 197<br>5'-gAA 3' |                                |                  | 527<br>5'-CCA 3' |                  |                  |
|                                          |                  |                  | 603<br>5'-gTg 3' |                  |                  |                  | 463<br>5'-gCT 3' |                                |                  |                  |                  |                  |
| Well No.                                 | 1                | 2                | 3                | 4                | 5                | 6                | 7                | 8                              | 9                | 10               | 11               | 12               |

|                                          |                  |                  |                  |                                |                  |                  |                  |                  |                  |                  |                  |
|------------------------------------------|------------------|------------------|------------------|--------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Well No.                                 | 13               | 14               | 15               | 16                             | 17               | 18               | 19               | 20               | 21               | 22               | 23               |
| Length of spec. PCR product              | 90               | 95<br>130<br>190 | 105              | 160                            | 145<br>275       | 140              | 125              | 60               | 125              | 115<br>205       | 165              |
| Length of int. pos. control <sup>1</sup> | 1070             | 1070             | 1070             | 1070                           | 1070             | 1070             | 1070             | 1070             | 1070             | 1070             | 1070             |
| 5'-primer(s) <sup>2</sup>                | 207<br>5'-ACC 3' | 106<br>5'-CCA 3' | 206<br>5'-gAC 3' | 539<br>5'-gCT 3'               | 77<br>5'-CTT 3'  | 106<br>5'-CCg 3' | 209<br>5'-ggA 3' | 539<br>5'-gCg 3' | 193<br>5'-CCA 3' | 397<br>5'-gCT 3' | 361<br>5'-Agg 3' |
|                                          | 208<br>5'-CgT 3' | 363<br>5'-AgC 3' |                  |                                | 206<br>5'-gAA 3' |                  |                  |                  | 435<br>5'-AAA 3' | 652<br>5'-CCg 3' |                  |
|                                          | 209<br>5'-ggA 3' |                  |                  |                                |                  |                  |                  |                  |                  |                  |                  |
| 3'-primer(s) <sup>3</sup>                | 256<br>5'-CTC 3' | 197<br>5'-gAA 3' | 272<br>5'-Tgg 3' | 3 <sup>rd</sup> I<br>5'-TAT 3' | 309<br>5'-ATC 3' | 206<br>5'-CCg 3' | 292<br>5'-gTC 3' | 559<br>5'-CAG 3' | 272<br>5'-TgA 3' | 559<br>5'-CAG 3' | 486<br>5'-gCg 3' |
|                                          | 256<br>5'-CCC 3' | 256<br>5'-CCC 3' |                  |                                |                  |                  | 292<br>5'-gTC 3' |                  | 527<br>5'-CCA 3' | 728<br>5'-CCT 3' |                  |
|                                          |                  | 419<br>5'-CgA 3' |                  |                                |                  |                  |                  |                  |                  |                  |                  |
|                                          |                  | 419<br>5'-Cgg 3' |                  |                                |                  |                  |                  |                  |                  |                  |                  |
| Well No.                                 | 13               | 14               | 15               | 16                             | 17               | 18               | 19               | 20               | 21               | 22               | 23               |

<sup>1</sup>The internal positive control primer pairs amplify segments of the human growth hormone gene. The internal positive control bands are 1070 or 800 base pairs respectively, well distribution as outlined in the table. Well number 1 contains the shorter, 800 bp, internal positive control band. The well distribution of the internal controls can help in orientation of the kit on gel photo, as well as allow for kit identification. In the presence of a specific amplification the intensity of the control band often decreases.

<sup>2</sup>The nucleotide position 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 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.

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101.549-06u – without *Taq* polymerase, IFU-02

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Lot-specific information

| CELL LINE VALIDATION SHEET              |                             |            |        |        |            |           |           |           |           |           |           |           |           |           |           |           |           |  |
|-----------------------------------------|-----------------------------|------------|--------|--------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| HLA-B*53 SSP subtyping kit <sup>2</sup> |                             |            |        |        |            |           |           |           |           |           |           |           |           |           |           |           |           |  |
|                                         |                             |            |        |        |            | Well      |           |           |           |           |           |           |           |           |           |           |           |  |
|                                         |                             |            |        |        |            | 1         | 2         | 3         | 4         | 5         | 6         | 7         | 8         | 9         | 10        | 11        | 12        |  |
|                                         |                             |            |        |        | Prod. No.: | 201317301 | 201317302 | 201317303 | 201317304 | 201317305 | 201317306 | 201436607 | 201317308 | 201317309 | 201317310 | 201436611 | 201317312 |  |
|                                         |                             |            |        |        |            | 201557213 | 201557214 | 201317315 | 201317316 |           |           |           |           |           |           |           |           |  |
|                                         | IHWC cell line <sup>1</sup> |            |        | B*     |            |           |           |           |           |           |           |           |           |           |           |           |           |  |
| 1                                       | 9001                        | SA         | *07:02 |        |            | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         |  |
| 2                                       | 9280                        | LK707      | *52:01 | *73:01 |            | +         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         |  |
| 3                                       | 9011                        | E4181324   | *52:01 |        |            | +         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         |  |
| 4                                       | 9275                        | GU373      | *15:10 | *53:01 |            | +         | -         | -         | -         | -         | -         | -         | +         | +         | +         | -         | -         |  |
| 5                                       | 9009                        | KAS011     | *37:01 |        |            | -         | -         | +         | -         | -         | -         | +         | -         | -         | -         | -         | -         |  |
| 6                                       | 9353                        | SM         | *39:01 | *51:01 |            | +         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         |  |
| 7                                       | 9020                        | QBL        | *18:01 |        |            | -         | -         | -         | -         | -         | +         | -         | -         | -         | +         | +         | -         |  |
| 8                                       | 9025                        | DEU        | *35:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | +         | +         | +         | -         |  |
| 9                                       | 9026                        | YAR        | *38:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 10                                      | 9107                        | LKT3       | *54:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         |  |
| 11                                      | 9051                        | PITOUT     | *44:03 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         |  |
| 12                                      | 9052                        | DBB        | *57:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | +         | +         | +         | -         |  |
| 13                                      | 9025                        | JESTHOM    | *27:05 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 14                                      | 9071                        | OLGA       | *15:01 | *15:20 |            | -         | -         | -         | -         | -         | -         | -         | +         | +         | +         | +         | -         |  |
| 15                                      | 9075                        | DKB        | *40:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 16                                      | 9037                        | SWEIG007   | *40:02 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 17                                      | 9282                        | CTM3953540 | *08:01 | *55:01 |            | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | +         | -         |  |
| 18                                      | 9257                        | 32367      | *14:01 | *56:01 |            | -         | -         | -         | +         | -         | -         | -         | +         | +         | -         | +         | -         |  |
| 19                                      | 9038                        | BM16       | *18:01 |        |            | -         | -         | -         | -         | -         | +         | -         | -         | -         | +         | +         | -         |  |
| 20                                      | 9059                        | SLE005     | *40:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 21                                      | 9064                        | AMALA      | *15:01 |        |            | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | +         | -         |  |
| 22                                      | 9056                        | KOSE       | *35:03 |        |            | -         | -         | -         | +         | -         | -         | -         | -         | +         | -         | -         | -         |  |
| 23                                      | 9124                        | IHL        | *40:02 | *56:02 |            | -         | -         | -         | +         | -         | -         | -         | -         | +         | -         | -         | -         |  |
| 24                                      | 9035                        | JBUSH      | *38:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 25                                      | 9049                        | IBW9       | *14:02 |        |            | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         |  |
| 26                                      | 9285                        | WT49       | *58:01 |        |            | +         | -         | -         | -         | -         | -         | -         | -         | +         | +         | +         | -         |  |
| 27                                      | 9191                        | CH1007     | *07:05 | *51:01 |            | +         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         |  |
| 28                                      | 9320                        | BEL5GB     | *44:02 | *44:03 |            | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         |  |
| 29                                      | 9050                        | MOU        | *44:03 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         |  |
| 30                                      | 9021                        | RSH        | *42:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 31                                      | 9019                        | DUCAF      | *18:01 |        |            | -         | -         | -         | -         | -         | +         | -         | -         | -         | +         | +         | -         |  |
| 32                                      | 9297                        | HAG        | *41:02 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 33                                      | 9098                        | MT14B      | *40:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 34                                      | 9104                        | DHIF       | *38:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 35                                      | 9302                        | SSTO       | *44:02 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         |  |
| 36                                      | 9024                        | KT17       | *15:01 | *35:01 |            | -         | -         | -         | -         | -         | -         | -         | +         | +         | +         | +         | -         |  |
| 37                                      | 9065                        | HHKB       | *07:02 |        |            | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         |  |
| 38                                      | 9099                        | LZL        | *15:01 |        |            | -         | -         | -         | -         | -         | -         | -         | +         | -         | +         | -         | -         |  |
| 39                                      | 9315                        | CML        | *08:01 | *27:05 |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 40                                      | 9134                        | WHONP199   | *13:02 | *46:01 |            | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | +         | -         |  |
| 41                                      | 9055                        | H0301      | *14:02 |        |            | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         |  |
| 42                                      | 9066                        | TAB089     | *46:01 |        |            | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | +         | -         |  |
| 43                                      | 9076                        | T7526      | *46:01 |        |            | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | +         | -         |  |
| 44                                      | 9057                        | TEM        | *38:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 45                                      | 9239                        | SHJO       | *42:01 | *50:01 |            | -         | -         | -         | +         | -         | -         | -         | +         | -         | -         | -         | +         |  |
| 46                                      | 9013                        | SCHU       | *07:02 |        |            | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         |  |
| 47                                      | 9045                        | TUBO       | *51:01 |        |            | +         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         |  |
| 48                                      | 9303                        | TER-ND     | *35:01 | *44:03 |            | -         | -         | -         | -         | -         | -         | -         | -         | +         | +         | +         | -         |  |



101.549-06 – including *Taq* polymerase, IFU-01  
101.549-06u – without *Taq* polymerase, IFU-02

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Lot No.: **89Y**

Lot-specific information

| CELL LINE VALIDATION SHEET              |                             |            |        |        |            |           |           |           |           |           |           |           |
|-----------------------------------------|-----------------------------|------------|--------|--------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-B*53 SSP subtyping kit <sup>2</sup> |                             |            |        |        |            |           |           |           |           |           |           |           |
|                                         |                             |            |        |        | Prod. No.: | Well      |           |           |           |           |           |           |
|                                         |                             |            |        |        |            | 17        | 18        | 19        | 20        | 21        | 22        | 23        |
|                                         |                             |            |        |        |            | 201557217 | 201317318 | 201317319 | 201317320 | 201557221 | 201557222 | 201436623 |
|                                         | IHWC cell line <sup>1</sup> |            | B*     |        |            |           |           |           |           |           |           |           |
| 1                                       | 9001                        | SA         | *07:02 |        |            | -         | -         | -         | -         | -         | -         | -         |
| 2                                       | 9280                        | LK707      | *52:01 | *73:01 |            | -         | -         | -         | -         | -         | -         | -         |
| 3                                       | 9011                        | E4181324   | *52:01 |        |            | -         | -         | -         | -         | -         | -         | -         |
| 4                                       | 9275                        | GU373      | *15:10 | *53:01 |            | -         | -         | -         | -         | -         | -         | -         |
| 5                                       | 9009                        | KAS011     | *37:01 |        |            | -         | +         | -         | -         | -         | -         | -         |
| 6                                       | 9353                        | SM         | *39:01 | *51:01 |            | -         | -         | -         | -         | -         | -         | -         |
| 7                                       | 9020                        | QBL        | *18:01 |        |            | -         | +         | -         | -         | -         | -         | -         |
| 8                                       | 9025                        | DEU        | *35:01 |        |            | -         | -         | -         | -         | -         | -         | -         |
| 9                                       | 9026                        | YAR        | *38:01 |        |            | -         | -         | -         | -         | -         | -         | -         |
| 10                                      | 9107                        | LKT3       | *54:01 |        |            | -         | -         | -         | -         | -         | -         | -         |
| 11                                      | 9051                        | PITOUT     | *44:03 |        |            | -         | -         | -         | -         | -         | -         | -         |
| 12                                      | 9052                        | DBB        | *57:01 |        |            | -         | -         | -         | -         | -         | -         | -         |
| 13                                      | 9025                        | JESTHOM    | *27:05 |        |            | -         | -         | -         | -         | -         | -         | -         |
| 14                                      | 9071                        | OLGA       | *15:01 | *15:20 |            | -         | -         | -         | -         | -         | -         | -         |
| 15                                      | 9075                        | DKB        | *40:01 |        |            | -         | -         | -         | -         | -         | -         | -         |
| 16                                      | 9037                        | SWEIG007   | *40:02 |        |            | -         | -         | -         | -         | -         | -         | -         |
| 17                                      | 9282                        | CTM3953540 | *08:01 | *55:01 |            | -         | -         | -         | -         | -         | -         | -         |
| 18                                      | 9257                        | 32367      | *14:01 | *56:01 |            | -         | -         | -         | -         | -         | -         | -         |
| 19                                      | 9038                        | BM16       | *18:01 |        |            | -         | +         | -         | -         | -         | -         | -         |
| 20                                      | 9059                        | SLE005     | *40:01 |        |            | -         | -         | -         | -         | -         | -         | -         |
| 21                                      | 9064                        | AMALA      | *15:01 |        |            | -         | -         | -         | -         | -         | -         | -         |
| 22                                      | 9056                        | KOSE       | *35:03 |        |            | -         | -         | -         | -         | -         | -         | -         |
| 23                                      | 9124                        | IHL        | *40:02 | *56:02 |            | -         | -         | -         | -         | -         | -         | -         |
| 24                                      | 9035                        | JBUSH      | *38:01 |        |            | -         | -         | -         | -         | -         | -         | -         |
| 25                                      | 9049                        | IBW9       | *14:02 |        |            | -         | -         | -         | -         | -         | -         | -         |
| 26                                      | 9285                        | WT49       | *58:01 |        |            | -         | -         | -         | -         | -         | -         | -         |
| 27                                      | 9191                        | CH1007     | *07:05 | *51:01 |            | -         | -         | -         | -         | -         | -         | -         |
| 28                                      | 9320                        | BEL5GB     | *44:02 | *44:03 |            | -         | -         | -         | -         | -         | -         | -         |
| 29                                      | 9050                        | MOU        | *44:03 |        |            | -         | -         | -         | -         | -         | -         | -         |
| 30                                      | 9021                        | RSH        | *42:01 |        |            | -         | -         | -         | -         | -         | -         | -         |
| 31                                      | 9019                        | DUCAF      | *18:01 |        |            | -         | +         | -         | -         | -         | -         | -         |
| 32                                      | 9297                        | HAG        | *41:02 |        |            | -         | -         | -         | -         | -         | -         | -         |
| 33                                      | 9098                        | MT14B      | *40:01 |        |            | -         | -         | -         | -         | -         | -         | -         |
| 34                                      | 9104                        | DHIF       | *38:01 |        |            | -         | -         | -         | -         | -         | -         | -         |
| 35                                      | 9302                        | SSTO       | *44:02 |        |            | -         | -         | -         | -         | -         | -         | -         |
| 36                                      | 9024                        | KT17       | *15:01 | *35:01 |            | -         | -         | -         | -         | -         | -         | -         |
| 37                                      | 9065                        | HHKB       | *07:02 |        |            | -         | -         | -         | -         | -         | -         | -         |
| 38                                      | 9099                        | LZL        | *15:01 |        |            | -         | -         | -         | -         | -         | -         | -         |
| 39                                      | 9315                        | CML        | *08:01 | *27:05 |            | -         | -         | -         | -         | -         | -         | -         |
| 40                                      | 9134                        | WHONP199   | *13:02 | *46:01 |            | -         | -         | -         | -         | -         | -         | -         |
| 41                                      | 9055                        | H0301      | *14:02 |        |            | -         | -         | -         | -         | -         | -         | -         |
| 42                                      | 9066                        | TAB089     | *46:01 |        |            | -         | -         | -         | -         | -         | -         | -         |
| 43                                      | 9076                        | T7526      | *46:01 |        |            | -         | -         | -         | -         | -         | -         | -         |
| 44                                      | 9057                        | TEM        | *38:01 |        |            | -         | -         | -         | -         | -         | -         | -         |
| 45                                      | 9239                        | SHJO       | *42:01 | *50:01 |            | -         | -         | -         | -         | -         | -         | -         |
| 46                                      | 9013                        | SCHU       | *07:02 |        |            | -         | -         | -         | -         | -         | -         | -         |
| 47                                      | 9045                        | TUBO       | *51:01 |        |            | -         | -         | -         | -         | -         | -         | -         |
| 48                                      | 9303                        | TER-ND     | *35:01 | *44:03 |            | -         | -         | -         | -         | -         | -         | -         |

<sup>1</sup>The provided cell line HLA specificities are retrieved from the <http://www.ihwg.org/hla> web site. The specificity of an individual cell line may thus be subject to change.

**101.549-06 – including *Taq* polymerase, IFU-01**

**101.549-06u – without *Taq* polymerase, IFU-02**

Visit [www.olerup-ssp.com](http://www.olerup-ssp.com) for

**“Instructions for Use” (IFU)**

**Lot No.: 89Y**

**Lot-specific information**

<sup>2</sup>The specificity of each primer solution in the kit has been tested against 48 well characterized cell line DNAs and where applicable, additional cell line DNAs.

No DNAs carrying the alleles to be amplified by primer solutions 2, 5 and 23 were available.

The specificities of the primers in primer solutions 2, 5 and 23 were tested by separately adding one additional 3'-primer, respectively one additional 5'-primer. In primer solutions 4, 6, 7, 13 and 22 one of the 3'-primers was not possible to test, and in primer mix 13 and 17 one or two 5'-primers were not possible to test.

Additional primers in primer solutions 3, 4, 6, 14, 19, 21 and 22 were tested by separately adding one additional 3'-primer and/or one additional 5'-primer.

**101.549-06 – including *Taq* polymerase, IFU-01**

**101.549-06u – without *Taq* polymerase, IFU-02**

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**Lot No.: 89Y**

**Lot-specific information**

101.549-06 – including *Taq* polymerase, IFU-01  
101.549-06u – without *Taq* polymerase, IFU-02

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Lot No.: **89Y**

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