

Lot No.: **31F**

Lot-specific Information

***Olerup* SSP[®] HLA-B*07**

Product number: 101.512-24u/03u – without *Taq* pol.
Lot number: 31F
Expiry date: 2010-December-01
Number of tests: 24 tests – Product No. 101.512-24u
3 tests – Product No. 101.512-03u
Number of wells per test: 45
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. 31F.

CHANGES COMPARED TO THE PREVIOUS *OLERUP* SSP[®] HLA-B*07 LOT

The HLA-B*07 specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup* SSP[®] HLA-B*07 lot was made (Lot No. Y40).

Thirteen wells have been added to the HLA-B*07 kit,
wells **33 to 45**.

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

Well	5'-primer	3'-primer	rationale
1	-	Removed	One 3'-primer removed.
9	Moved	Moved	Primer pair moved to well 41.
11	-	Added, changed	Primer pair added for the B*0739 allele and changed 3'-primer for increased specificity.
15	-	New	Primers added to improve resolution of the B*0747 allele.
17	-	Moved	3'-primer moved to well 44.
27	Modified, moved	Moved	5'-primer modified for increased specificity, and primer pair moved to well 40.
28	Modified, moved	Exchanged , moved	Primer pair moved to well 40. Primer pair changed for increased specificity.
29	Moved	Moved	Primer pair moved to well 41.

Lot No.: **31F**

Lot-specific Information

33	New	New	Primers pair added for the B*0761 allele.
34	New	New	Primer pair added for the B*0762 allele.
35	New	New	Primer pair added for the B*0763 allele.
36	New	New	Primer pair added for the B*0764 allele.
37	New	New	Primer pair added for the B*0765 allele.
38	New	New	Primer pair added for the B*0766 allele.
39	New	New	Primer pair added for improved resolution of the B*0702, B*0705 and B*0707 alleles in combination with B*40xx.
40	New	New	New primer pair for B*0756.
41	Moved	Moved	Primer pair from wells 9 and 29.
42	New	New	Primer pair added for the B*0767N allele.
43	New	New	Primer pair added for the B*0768 allele.
44	Moved	Moved	Primer pair moved from well 17 to improve resolution of the B*0710 allele.
45	New	New	Primer pair added for the B*0750 allele.

Lot No.: **31F**

Lot-specific Information

PRODUCT DESCRIPTION

HLA-B*07 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the B*0702 to B*0768 alleles.

PLATE LAYOUT

Each test consists of 45 PCR reactions in a 48 well cut PCR plate. Wells 46 to 48 are empty.

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	empty	empty	empty

The 48 well cut PCR plate is marked with 'HLA-B*07' in silver/gray ink.

Well No. 1 is marked with the Lot Number '31F'.

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

Please note: When removing each 48 well PCR plate, make sure that the remaining plates stay covered. Use a scalpel or a similar instrument to carefully cut the foil between the plates.

INTERPRETATION

The interpretation of HLA-B*07 SSP subtypings will be influenced by the B*08, most B*13, four B*14, thirty-one B*15, the B*18, the B*27, fifteen B*35, the B*37, the B*38, the B*39, the B*40, the B*41, the B*42, twelve B*44, two B*45, four B*46, the B*48, the B*49, eight B*51, the B*5208, the B*54, the B*55, most B*56, two B*57, three B*58, the B*59, the B*67, B*7301, three B*78, the B*81, the B*82 and the B*8301 alleles when present on the other haplotype. In addition, the Cw*0305, Cw*0325 and Cw*0327 alleles will be amplified by primer mixes 25, 26 and 31, the Cw*0738 allele will be amplified by primer mixes 10, 12, 13, 14, 18 and 29 and the Cw*0808 allele will be amplified by primer mixes 26 and 31.

UNIQUELY IDENTIFIED ALLELES

All the HLA-B*07 alleles, i.e. **B*0702 to B*0768**, recognized by the HLA Nomenclature Committee in October 2008¹ will give rise to unique amplification patterns by the primers in the HLA-B*07 subtyping kit².

The HLA-B*07 subtyping kit cannot distinguish the B*070201 to 070207 alleles, the B*070501 to 070503 alleles or the B*072201 and 072202 alleles.

¹HLA-B alleles listed on the IMGT/HLA web page 2008-October-10, release 2.23.0, www.ebi.ac.uk/imgt/hla.

²The B*0716 and B*3707 and the B*0750 and B*4808 alleles will give rise to identical amplification patterns. These alleles can e.g. be distinguished by the HLA-B low resolution primer set.

Lot No.: **31F**

Lot-specific Information

RESOLUTION IN HOMO- AND HETEROZYGOTES

The 67 HLA-B*07 alleles will give rise to 68 different amplification patterns. They can be combined in 2 346 homozygous and heterozygous combinations. 712 of these genotypes do not give rise to unique amplification patterns. (The differently sized specific PCR fragments generated by primer mixes 7 to 11, 13 to 15, 17 to 21, 25 to 27, 29, 31 and 39 were not considered in these calculations.)

++++++-+	--+-	----	----	----	----	0721,0732 = 0732,0759
++++++--	-++-	----	----	----	----	0714,0738 = 071802,0738
++++++--	-++-	----	----	----	----	0712,0738 = 071801,0738
++++++--	-++-	----	----	----	----	0708,0714 = 0708,071802
++++++--	-++-	----	----	----	----	0714,0727 = 071802,0727
++++++--	-++-	----	----	----	----	0714,0750 = 071802,0750
++++++--	-++-	----	----	----	----	0714,0716 = 0716,071802
++++++--	-++-	----	----	----	----	0703,0714 = 0703,071802
++++++--	-++-	----	----	----	----	0709,0738 = 0717,0738
++++++--	-++-	----	----	----	----	0708,0709 = 0708,0717
++++++--	-++-	----	----	----	----	0715,0738 = 0738,0754
++++++--	-++-	----	----	----	----	0728,0738 = 0738,0742
++++++--	-++-	----	----	----	----	0733,0738 = 0738,0755
++++++--	-++-	----	----	----	----	0702,0738 = 0736,0738
++++++--	-++-	----	----	----	----	0703,0739 = 0708,0739
++++++--	-++-	----	----	----	----	0708,0728 = 0708,0742
++++++--	-++-	----	----	----	----	0708,0733 = 0708,0755
++++++--	-++-	----	----	----	----	0703,0710 = 0708,0710
++++++--	-++-	----	----	----	----	0709,0727 = 0717,0727
++++++--	-++-	----	----	----	----	0709,0750 = 0717,0750
++++++--	-++-	----	----	----	----	0709,0716 = 0716,0717
++++++--	-++-	----	----	----	----	0703,0709 = 0703,0717
++++++--	-++-	----	----	----	----	0715,0727 = 0727,0757
++++++--	-++-	----	----	----	----	0727,0728 = 0727,0742
++++++--	-++-	----	----	----	----	0727,0733 = 0727,0755
++++++--	-++-	----	----	----	----	0702,0727 = 0727,0745 =
						0727,0746
++++++--	-++-	----	----	----	----	0728,0750 = 0742,0750
++++++--	-++-	----	----	----	----	0716,0728 = 0716,0742
++++++--	-++-	----	----	----	----	0733,0750 = 0750,0755
++++++--	-++-	----	----	----	----	0716,0733 = 0716,0755
++++++--	-++-	----	----	----	----	0703,0728 = 0703,0742
++++++--	-++-	----	----	----	----	0703,0733 = 0703,0755
++++++-+	-++-	----	----	----	----	0714,0752 = 071802,0752
++++++-+	-++-	----	----	----	----	0714,0725 = 071802,0725
++++++-+	-++-	----	----	----	----	0714,0729 = 071802,0729
++++++-+	-++-	----	----	----	----	0704,0714 = 0704,071802
++++++-+	-++-	----	----	----	----	0704,0739 = 0725,0739
++++++-+	-++-	----	----	----	----	0709,0752 = 0717,0752
++++++-+	-++-	----	----	----	----	0709,0725 = 0717,0725
++++++-+	-++-	----	----	----	----	0709,0729 = 0717,0729
++++++-+	-++-	----	----	----	----	0704,0709 = 0704,0717
++++++-+	-++-	----	----	----	----	0722,0725 = 0725,0752
++++++-+	-++-	----	----	----	----	0728,0752 = 0742,0752
++++++-+	-++-	----	----	----	----	0722,0729 = 0729,0752 =
						0741,0752
++++++-+	-++-	----	----	----	----	0719,0722 = 0719,0752 =
						0733,0752 = 0752,0755

Lot-specific Information

[illegible]

0702,0752 = 0704,0722 =
0704,0752 = 0722,0752 =
0752,0752
0725,0728 = 0725,0742
0725,0729 = 0725,0741
0728,0729 = 0729,0742
0704,0728 = 0704,0742
0719,0729 = 0719,0741 =
0729,0733 = 0729,0755
0702,0729 = 0704,0729 =
0704,0741 = 0729,0741
0705,071801 = 0705,071802
0705,0721 = 0705,0759
0702,0705 = 0705,0749N =
0706,0749N
0707,0734 = 071801,0734 =
071802,0734
0714,0759 = 071802,0759
0706,071801 = 0706,071802
0709,0759 = 0717,0759
0713,0734 = 0715,0734
0721,0734 = 0734,0759
0702,0734 = 0731,0734 =
0734,0744
0728,0759 = 0742,0759 =
0751,0759
0706,0721 = 0706,0759 =
0740,0759
0733,0759 = 0755,0759
0702,0759 = 0721,0759 =
0759,0759
0714,0749N = 071802,0749N
0709,0749N = 0717,0749N
0728,0749N = 0742,0749N
0733,0749N = 0749N,0755
0702,0749N = 0749N,0749N
0714,0739 = 071802,0739
0710,0714 = 0710,071802
0711,0714 = 0711,071802
0709,0712 = 0712,0717
0709,0714 = 0709,071802 =
0717,071802
0709,071801 = 0717,071801
0709,0747 = 0717,0747
0707,0709 = 0707,0717
0713,0714 = 0713,071802
0714,0748 = 071802,0748
0707,0743 = 0714,0743 =
071802,0743
0714,0726 = 071802,0726
0714,0757 = 071802,0757
0714,0754 = 071802,0754
0712,0715 = 0712,0747 =
0712,0754 = 071801,0754
0714,0715 = 0714,0747 =
0715,071802 = 071802,0747
0715,071801 = 071801,0747
0714,0737 = 071802,0737
0714,0746 = 071802,0746

Lot No.: **31F**

Lot-specific Information

+++++---	-+-+---	-+-----	-+-----	-----	-----	0712,0728 = 0712,0742
+++++---	-+-+---	-+-----	-----+	-----	-----	0712,0731 = 0712,0744
+++++---	-+-+---	-+-----	-----	-----+	-----	0714,0736 = 071802,0736
+++++---	-+-+---	-+-----	-----	-----	-----	0702,0712 = 0712,0736 = 071801,0736
+++++---	-+-+---	-+-----	++-----	-----+	-----	0714,0720 = 071802,0720
+++++---	-+-+---	-+-----	-----	-----+	-----	0714,0735 = 071802,0735
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0714,0751 = 071802,0751
+++++---	-+-+---	-+-----	-----	-----+	-----	0714,0721 = 071802,0721
+++++---	-+-+---	-+-----	-----+	-----+	-----	0714,0722 = 071802,0722
+++++---	-+-+---	-+-----	-----+	-----+	-----	0714,0723 = 071802,0723
+++++---	-+-+---	-+-----	-----+	-----+	-----	0714,0724 = 071802,0724
+++++---	-+-+---	-+-----	-----+	-----+	-----	0714,0745 = 071802,0745
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0714,0742 = 071802,0728 = 071802,0742
+++++---	-+-+---	-+-----	-+-----	-----+	-----	071801,0728 = 071801,0742
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0714,0741 = 071802,0741
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0714,0730 = 071802,0730
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0707,0731 = 0714,0731 = 0714,0744 = 071802,0731 = 071802,0744
+++++---	-+-+---	-+-----	-+-----	-----+	-----	071801,0731 = 071801,0744
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0714,0755 = 071802,0755
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0714,0761 = 071802,0761
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0714,0762 = 071802,0762
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0714,0763 = 071802,0763
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0714,0764 = 071802,0764
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0714,0765 = 071802,0765
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0714,0766 = 071802,0766
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0714,0756 = 071802,0756
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0714,0758 = 071802,0758
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0714,0767N = 071802,0767N
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0714,0768 = 071802,0768
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0702,0714 = 0702,071802
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0713,0747 = 0726,0747
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0746,0747 = 0747,0757
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0736,0747 = 0747,0754
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0728,0747 = 0742,0747
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0733,0747 = 0747,0755
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0707,0715 = 0707,0747
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0702,0747 = 0715,0747 = 0747,0747
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0707,0728 = 0707,0742
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0709,0739 = 0717,0739
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0709,0710 = 0710,0717
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0726,0739 = 0739,0748
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0728,0739 = 0739,0742
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0733,0739 = 0739,0755
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0702,0739 = 0739,0739
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0710,0728 = 0710,0742
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0710,0733 = 0710,0755
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0702,0710 = 0710,0710
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0709,0743 = 0717,0743
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0709,0731 = 0717,0731
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0711,0713 = 0711,0726
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0709,0713 = 0713,0717
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0709,0748 = 0717,0748
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0709,0726 = 0717,0726
+++++---	-+-+---	-+-----	-+-----	-----+	-----	0711,0736 = 0711,0754

Lot No.: **31F**

Lot-specific Information

+++++---	---+--+	+-----	-+-----	-----	-----	0711,0728 = 0711,0742
+++++---	---+--+	+-----	-----+	-----	-----	0711,0733 = 0711,0755
+++++---	---+--+	+-----	-----	-----	-----	0702,0711 = 0709,0711 =
						0709,0757 = 0711,0711 =
						0711,0715 = 0711,0717 =
						0711,0746 = 0711,0757 =
						0717,0757
+++++---	---+--+	+-----	-----	-----	-----	0709,0754 = 0717,0754
+++++---	---+--+	-----	-----	-----	-----	0709,0715 = 0715,0717
+++++---	---+--+	-----	-----	-----	-----	0709,0737 = 0717,0737
+++++---	---+---	+-----	-----	-----	-----	0709,0746 = 0717,0746
+++++---	---+---	+-----	-----	-----	-----	0709,0736 = 0717,0736
+++++---	---+---	-+-----	++-----	-----	-----	0709,0720 = 0717,0720
+++++---	---+---	-+-----	-----	-----	-----	0709,0735 = 0717,0735
+++++---	---+---	-+-----	-+-----	-----	-----	0709,0751 = 0717,0751
+++++---	---+---	-+-----	-----	-----	-----	0709,0721 = 0717,0721
+++++---	---+---	-+-----	-----	-----	-----	0709,0722 = 0717,0722
+++++---	---+---	-+-----	-----	-----	-----	0709,0723 = 0717,0723
+++++---	---+---	-+-----	++-----	-----	-----	0709,0724 = 0717,0724
+++++---	---+---	-----	+-----	-----	-----	0709,0745 = 0717,0745
+++++---	---+---	-----	-+-----	-----	-----	0709,0728 = 0709,0742 =
						0717,0742
+++++---	---+---	-----	-+-----	-----	-----	0709,0741 = 0717,0741
+++++---	---+---	-----	-+-----	-----	-----	0709,0730 = 0717,0730
+++++---	---+---	-----	-+-----	-----	-----	0709,0744 = 0717,0744
+++++---	---+---	-----	-----+	-----	-----	0709,0733 = 0709,0755 =
						0717,0755
+++++---	---+---	-----	-----	+-----	-----	0709,0761 = 0717,0761
+++++---	---+---	-----	-----	-+-----	-----	0709,0762 = 0717,0762
+++++---	---+---	-----	-----	-+-----	-----	0709,0763 = 0717,0763
+++++---	---+---	-----	-----	-+-----	-----	0709,0764 = 0717,0764
+++++---	---+---	-----	-----	-+-----	-----	0709,0765 = 0717,0765
+++++---	---+---	-----	-----	-+-----	-----	0709,0766 = 0717,0766
+++++---	---+---	-----	-----	-+-----	-----	0709,0756 = 0717,0756
+++++---	---+---	-----	-----	-+-----	-----	0709,0758 = 0717,0758
+++++---	---+---	-----	-----	-+-----	-----	0709,0767N = 0717,0767N
+++++---	---+---	-----	-----	-+-----	-----	0709,0768 = 0717,0768
+++++---	---+---	-----	-----	-----	-----	0702,0709 = 0702,0717 =
						0709,0709 = 0709,0717
+++++---	---+++	-----	-----+	-----	-----	0713,0731 = 0713,0743 =
						0715,0743
+++++---	---++-	-----	-+--+	-----	-----	0728,0743 = 0742,0743
+++++---	---++-	-----	-----+	-----	-----	0702,0743 = 0726,0731 =
						0731,0743 = 0743,0744
+++++---	---+---	-----	-+--+	-----	-----	0728,0731 = 0731,0742
+++++---	---+---	-----	---+--	-----	-----	0731,0733 = 0731,0755
+++++---	---+---	-----	-----+	-----	-----	0702,0731 = 0731,0731 =
						0731,0744
+++++---	---++-	+-----	-----	-----	-----	0713,0746 = 0713,0757 =
						0726,0757
+++++---	---++-	-+-----	-----	-----	-----	0713,0736 = 0713,0754 =
						0726,0754
+++++---	---++-	-----+	-----	-----	-----	0713,0748 = 0715,0748
+++++---	---++-	-----	-+-----	-----	-----	0713,0728 = 0713,0742
+++++---	---++-	-----	-----+	-----	-----	0713,0733 = 0713,0755
+++++---	---++-	-----	-----	-----	-----	0702,0713 = 0713,0715 =
						0713,0726 = 0715,0726
+++++---	---+--	-----+	-+-----	-----	-----	0728,0748 = 0742,0748
+++++---	---+--	-----	-+-----	-----	-----	0726,0728 = 0726,0742

Lot No.: **31F**

Lot-specific Information

+++++---	-----+-	++-----	-----	-----	-----	0736,0757 = 0746,0754 = 0754,0757
+++++---	-----+-	+-----	-+-----	-----	-----	0728,0757 = 0742,0757
+++++---	-----+-	+-----	-----+-	-----	-----	0733,0757 = 0755,0757
+++++---	-----+-	+-----	-----	-----	-----	0702,0757 = 0715,0746 = 0715,0757 = 0746,0757 = 0757,0757
+++++---	-----+-	-+-----	-+-----	-----	-----	0728,0754 = 0742,0754
+++++---	-----+-	-+-----	-----+-	-----	-----	0733,0754 = 0754,0755
+++++---	-----+-	-+-----	-----	-----	-----	0702,0754 = 0715,0736 = 0715,0754 = 0736,0754 = 0754,0754
+++++---	-----+-	-----	-+-----	-----	-----	0715,0728 = 0715,0742
+++++---	-----+-	-----	-----+-	-----	-----	0715,0733 = 0715,0755
+++++---	-----+-	-----	-----	-----	-----	0702,0715 = 0715,0715
+++++---	-----+	-----	-+-----	-----	-----	0728,0737 = 0737,0742
+++++---	-----+	-----	-----+-	-----	-----	0733,0737 = 0737,0755
+++++---	-----	+-----	-+-----	-----	-----	0728,0746 = 0742,0746
+++++---	-----	+-----	-----+-	-----	-----	0733,0746 = 0746,0755
+++++---	-----	+-----	-----	-----	-----	0702,0746 = 0746,0746
+++++---	-----	-+-----	-+-----	-----	-----	0728,0736 = 0736,0742
+++++---	-----	-+-----	-----+-	-----	-----	0733,0736 = 0736,0755
+++++---	-----	-+-----	-----	-----	-----	0702,0736 = 0736,0736
+++++---	-----	--+-+--	++-----	-----	-----	0720,0721 = 0720,0751
+++++---	-----	--+-+--	++-----	-----	-----	0720,0733 = 0720,0755 = 0720,0760
+++++---	-----	--+-+--	++-----	-----	-----	0702,0720 = 0720,0720 = 0720,0724 = 0720,0728 = 0720,0735 = 0720,0742 = 0720,0745 = 0724,0735
+++++---	-----	--+-----	-+-----	-----	-----	0728,0735 = 0735,0742
+++++---	-----	--+-----	-----+-	-----	-----	0733,0735 = 0735,0755
+++++---	-----	--+-----	-----	-----	-----	0702,0735 = 0735,0735
+++++---	-----	--+-+--	++-----	-----	-----	0721,0724 = 0724,0751
+++++---	-----	--+-+--	++-----	-----	-----	0721,0760 = 0751,0760
+++++---	-----	--+-+--	-+-----	-----	-----	0733,0751 = 0751,0755
+++++---	-----	--+-----	-+-----	-----	-----	0702,0751 = 0721,0728 = 0721,0742 = 0721,0751 = 0728,0751 = 0742,0751 = 0751,0751
+++++---	-----	--+-----	-----+-	-----	-----	0721,0733 = 0721,0755
+++++---	-----	--+-----	-----	-----	-----	0702,0721 = 0721,0721
+++++---	-----	-----+-	-+-----	-----	-----	0722,0728 = 0722,0742
+++++---	-----	-----+-	-----+-	-----	-----	0722,0733 = 0722,0755
+++++---	-----	-----+-	-----	-----	-----	0702,0722 = 0722,0722
+++++---	-----	-----+-	-+-----	-----	-----	0723,0728 = 0723,0742
+++++---	-----	-----+-	-----+-	-----	-----	0723,0733 = 0723,0755
+++++---	-----	-----+-	-----	-----	-----	0702,0723 = 0723,0723
+++++---	-----	-----+-	++-----	-----	-----	0724,0733 = 0724,0755 = 0724,0760
+++++---	-----	-----+-	++-----	-----	-----	0702,0724 = 0724,0724 = 0724,0728 = 0724,0742 = 0724,0745
+++++---	-----	-----	++-----	-----	-----	0702,0760 = 0742,0760 = 0745,0760
+++++---	-----	-----	++-----	-----	-----	0728,0745 = 0742,0745
+++++---	-----	-----	+-----+	-----	-----	0733,0745 = 0745,0755
+++++---	-----	-----	+-----	-----	-----	0702,0745 = 0745,0745
+++++---	-----	-----	-++-----	-----	-----	0728,0741 = 0741,0742

Lot No.: **31F**

Lot-specific Information

+++++---	-----	-----	-+-+----	-----	-----	0728,0730 = 0730,0742
+++++---	-----	-----	-+-+----	-----	-----	0728,0744 = 0742,0744
+++++---	-----	-----	-+-+----	-----	-----	0728,0755 = 0733,0742 =
						0742,0755
+++++---	-----	-----	-+-----	+-----	-----	0728,0761 = 0742,0761
+++++---	-----	-----	-+-----	-+-----	-----	0728,0762 = 0742,0762
+++++---	-----	-----	-+-----	--+-----	-----	0728,0763 = 0742,0763
+++++---	-----	-----	-+-----	---+-----	-----	0728,0764 = 0742,0764
+++++---	-----	-----	-+-----	----+-----	-----	0728,0765 = 0742,0765
+++++---	-----	-----	-+-----	-----+--	-----	0728,0766 = 0742,0766
+++++---	-----	-----	-+-----	-----++	-----	0728,0756 = 0742,0756
+++++---	-----	-----	-+-----	-----	+-----	0728,0758 = 0742,0758
+++++---	-----	-----	-+-----	-----	-+-----	0728,0767N = 0742,0767N
+++++---	-----	-----	-+-----	-----	--+---	0728,0768 = 0742,0768
+++++---	-----	-----	-+-----	-----	-----	0702,0728 = 0702,0742 =
						0728,0742 = 0742,0742
+++++---	-----	-----	--+-----	-----	-----	0733,0741 = 0741,0755
+++++---	-----	-----	--+-----	-----	-----	0702,0741 = 0741,0741
+++++---	-----	-----	---+--+	-----	-----	0730,0733 = 0730,0755
+++++---	-----	-----	---+--+	-----	-----	0702,0730 = 0730,0730
+++++---	-----	-----	----+--+	-----	-----	0733,0744 = 0744,0755
+++++---	-----	-----	----+--	-----	-----	0702,0744 = 0744,0744
+++++---	-----	-----	-----+	+-----	-----	0733,0761 = 0755,0761
+++++---	-----	-----	-----+	-+-----	-----	0733,0762 = 0755,0762
+++++---	-----	-----	-----+	--+-----	-----	0733,0763 = 0755,0763
+++++---	-----	-----	-----+	---+-----	-----	0733,0764 = 0755,0764
+++++---	-----	-----	-----+	----+-----	-----	0733,0765 = 0755,0765
+++++---	-----	-----	-----+	-----++	-----	0733,0756 = 0755,0756
+++++---	-----	-----	-----+	-----	+-----	0733,0758 = 0755,0758
+++++---	-----	-----	-----+	-----	-+-----	0733,0767N = 0755,0767N
+++++---	-----	-----	-----+	-----	--+---	0733,0768 = 0755,0768
+++++---	-----	-----	-----+	-----	-----	0702,0733 = 0702,0755
+++++---	-----	-----	-----	+-----	-----	0702,0761 = 0761,0761
+++++---	-----	-----	-----	-+-----	-----	0702,0762 = 0762,0762
+++++---	-----	-----	-----	--+-----	-----	0702,0763 = 0763,0763
+++++---	-----	-----	-----	---+-----	-----	0702,0764 = 0764,0764
+++++---	-----	-----	-----	-----++	-----	0702,0756 = 0756,0756
+++++---	-----	-----	-----	-----	+-----	0702,0758 = 0758,0758
+++++---	-----	-----	-----	-----	-+-----	0702,0767N = 0767N,0767N
+++++---	-----	-----	-----	-----	--+---	0702,0768 = 0768,0768
+++-+-+--	-----	-----	-----	-----	-----	0704,0748 = 0725,0726 =
						0725,0748
+++-+-+--	-----	-----	-----	-----	-----	0719,0725 = 0725,0733 =
						0725,0755
+++-+-+--	-----	-----	-----	-----	-----	0704,0725 = 0725,0725
+++-+-+--	-----	-----	-----	-----	-----	0704,0719 = 0704,0733 =
						0704,0755 = 0719,0755
+++-+-+--	-----	-----	-----	-----	-----	0726,0734 = 0734,0743
+++-+-+--	-----	-----	-----	-----	-----	0733,0743 = 0743,0755
+++-+-+--	-----	-----	-----	-----	-----	0726,0743 = 0743,0743
+++-+-+--	-----	-----	-----	-----	-----	0733,0748 = 0748,0755
+++-+-+--	-----	-----	-----	-----	-----	0726,0748 = 0748,0748
+++-+-+--	-----	-----	-----	-----	-----	0726,0733 = 0726,0755
+++-+-+--	-----	-----	-----	-----	-----	0740,0755 = 0753,0755
+++-+-+--	-----	-----	-----	-----	-----	0733,0766 = 0755,0766
+++-+-+--	-----	-----	-----	-----	-----	0733,0755 = 0755,0755
++-+++-+	-----	-----	-----	-----	-----	0706,0732 = 0732,0740
++-+++-+	-----	-----	-----	-----	-----	0705,0733 = 0705,0753

Lot No.: **31F**

Lot-specific Information

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0705,0705 = 0705,0706 =
0705,0740
0706,0733 = 0706,0753
0706,0706 = 0706,0740
0707,0712 = 0712,0714 =
0712,071802
0712,0712 = 0712,071801
071801,0753 = 071802,0753
071801,0740 = 071802,0740
0707,0714 = 0707,071801 =
0707,071802 = 0714,071801
= 0714,071802 =
071801,071802 =
071802,071802
0719,0740 = 0719,0753
0719,0719 = 0719,0733
0740,0760 = 0753,0760
0733,0760 = 0760,0760
0733,0740 = 0733,0753 =
0740,0753 = 0753,0753
0716,0732 = 0732,0737
0703,0732 = 0708,0732
0703,0738 = 0708,0738 =
0716,0738 = 0737,0738 =
0738,0738
0708,0716 = 0708,0737
0703,0708 = 0708,0708
0703,0727 = 0716,0727 =
0727,0727 = 0727,0737 =
0727,0750
0703,0750 = 0716,0750 =
0737,0750 = 0750,0750
0703,0716 = 0703,0737 =
0716,0716 = 0716,0737

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0702 = 070201-070207
0705 = 070501-070503
0722 = 072201-072202

Lot No.: **31F**

Lot-specific Information

SPECIFICITY TABLE

HLA-B*07 SSP subtyping

Specificities and sizes of the PCR products of the 45 primer mixes used for HLA-B*07 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-B*07 alleles ³	Other amplified HLA Class I alleles ^{3,4}
1	400 bp	800 bp	070201-070207, 0704-0707, 0709, 0710 ^{weakly} , 0711, 0712, 0714, 0715, 0717-0726, 0728-0731, 0733-0736, 0739-0749N, 0751-0764, 0766-0768	4201, 4202, 4204-4206, 4208, 4209, 4506, 670101-670102, 8102
2	285 bp	1070 bp	070201-0706, 0708-0711, 0713, 0715-0717, 0720-0732, 0734-0739, 0741-0752, 0754-0759, 0761-0768	3566, 3707, 4015, 4016, 4031, 4032, 4045, 4080, 420501-420502, 480101-480102, 4805-4812, 4814-4816, 4818, 4819, 8101-8104N
3	235 bp	1070 bp	070201-0704, 0707-0713, 0715, 0716, 071801-071802, 0720-0727, 0729-0731, 0735-0739, 0741-0752, 0754-0759, 0761-0768	9538, 3566, 3707, 4031-4033, 4052, 4059, 4606, 4808
4⁵	105 bp	800 bp	070201-0703, 070501-071802, 0720-0724, 0727-0732, 0735-	3566, 3707, 4015, 4016, 4023, 4032, 4805, 4808

Lot No.: **31F**

Lot-specific Information

			0739, 0741, 0742, 0744- 0747, 0749N- 0752, 0754, 0756-0759, 0761-0765, 0767N, 0768	
5⁸	220 bp	1070 bp	070201- 070207, 0704- 0707, 0709- 0715, 0717- 0726, 0728, 0730, 0731, 0733-0736, 0739-0749N, 0751-0764, 0766-0768	2701-270402, 270502-2711, 2713-2715, 2717, 2719-2721, 2724-2728, 2730-2738, 2740- 2743, 4201, 4202, 4204-4206, 4208, 4209, 5402, 5510, 670101- 6702, 7301, 8101-8104N
6	215 bp	1070 bp	0703, 0708, 0716, 0727, 0732, 0738, 0750	1314, 1401, 1407N, 1408, 1568, 1571, 180101-1803, 1805-1815, 1817N-1824, 1826-1832, 2712, 2716, 2718, 2723, 2729, 3550, 3584, 370101-3714, 380101- 3804, 3806-3817, 39010101- 39010102L, 390103-3903, 3905- 390602, 3907 ² , 3908-3911, 391301-3920, 3922-3945, 400201-400602, 4008, 4009, 4011, 4013, 4018-4020, 4024, 4026-4029, 4035, 4037, 4039, 4040, 4044, 4050, 4056, 4057, 4064, 4068, 4070, 4071, 4074, 4075, 4078, 4082, 4083, 4085, 4086, 4089-4091, 4093, 4207, 480101-4819, 5157
7^{5,10}	110, 215 bp	1070 bp	0704, 0719, 0725, 0729, 0752	080101-0805, 0807-0812, 0814- 0819N, 0821-0824, 0826-0830N, 0832-0838, 3587, 4101-4105, 4107, 4108, 4201, 4202, 4204- 4207, 4209, 5520
8¹¹	160, 235 bp	1070 bp	070501-0706, 0732, 0734, 0759	400101-400106, 4007, 4010, 4012, 401401-4016, 4021-4023, 4025, 4030, 4034, 4036, 4038, 4043, 4045-4049, 4054, 4055, 4061-4063, 4065-4067, 4069, 407201-4074, 4076, 4077, 4079- 4081, 4084, 4087, 4088, 4108, 420501-420502, 4431, 480101- 480102, 480301-480302, 4805-

Lot No.: **31F**

Lot-specific Information

				4807, 4809-4812, 4814-4816, 4818, 4819, 8101-8104N
9^{8,12}	240, 355 bp	1070 bp	070501- 070503, 0749N	
10¹³	285, 415 bp	800 bp	0707, 0712, 0714, 071801- 071802, 0747	9538, 400101-400106, 4007, 4010, 4012, 401401-401403, 4021-4023, 4025, 4033, 4036, 4038, 4042, 4043, 4046-4049, 4052, 4054, 4055, 4059-4063, 4065-4067, 4069, 407201-4074, 4076, 4077, 4079, 4081, 4084, 4087, 4088, 4108, 4431, 4606, 480301-480302, 4817, Cw*0738
11¹⁴	130, 210 bp	1070 bp	0708, 0710, 0732, 0738, 0739	1807, 1829, 2701-270402, 270502-270508, 270510-2711, 2713-2715, 2717, 2719-2721, 2723-2728, 2730-2743, 3550, 3584, 3806, 3807, 4008, 4013, 4068, 4806, 5157, 7301
12⁶	230 bp	1070 bp	0709, 0711, 0717	0828, 0835, 0837, 9538, 3566, 4038, 4052, 4059, 4060, 4209, 4606, 4814, 5315, Cw*0738
13^{5,15}	85, 290 bp	1070 bp	0712, 0714, 071801- 071802, 0731, 0734, 0743	4030, 4034, 4059, 4108, 420501- 420502, 4817, Cw*0738
14^{5,7,9,16}	110, 395 bp	1070 bp	0713, 0726, 0734, 0743, 0748	0813, 0825, 9538, 2736, 400101- 400106, 4007, 4010, 4012, 401401-401403, 4021, 4022N, 4025, 4030, 4031, 4033, 4034, 4036, 4038, 4042, 4043, 4045- 4049, 4052, 4054, 4055, 4059- 4063, 4065-4067, 4069, 407201- 4074, 4076, 4077, 4079-4081, 4084, 4087, 4088, 4431, 480101- 480102, 480301-480302, 4806, 4807, 4809-4812, 4814-4818, 5315, 8101-8104N, Cw*0738
15¹⁷	385, 425 bp	1070 bp	0711, 0713, 0715, 0747, 0754, 0757	0806, 0815, 0817, 3920, 3927, 4073, 4506, 6702, 7301
16	230 bp	1070 bp	0716, 0727, 0737, 0738, 0750	1314, 1568, 1571, 180101, 180103, 1802, 1805-1815, 1817N- 1824, 1826-1832, 2701, 2718,

Lot No.: **31F**

Lot-specific Information

				2723, 2729, 3550, 3584, 370101-3714, 380101-380202, 3804, 3806-3812, 3815-3817, 3905, 3907 ² , 3908, 3911, 391301-391302, 3920, 3937, 400201-400602, 4008, 4009, 4011, 4013, 4018-4020, 4024, 4026-4029, 4035, 4037, 4039, 4040, 4044, 4056, 4057, 4064, 4068, 4070, 4071, 4074, 4075, 4078, 4082, 4083, 4085, 4086, 4089-4091, 4093, 480101-4819, 5157, 5710
17¹⁸	345, 430 bp	1070 bp	0711, 0727, 0746, 0757	0806, 0817, 3817, 3920
18^{7,19}	265, 385, 435 bp	1070 bp	0712, 0736, 0738, 0754	0803, 3566, 380101-380102, 3805-3807, 3809-3814, 3816, 4059, 4060, 4418, 4506, 4817, 4818, 490101-490102, 4903-4905, Cw*0738
19²⁰	205, 250, 295 bp	800 bp	0720, 0735	1514, 1591, 9531, 3545, 3571, 4410, 4414, 4417, 4431, 4443, 4445, 4451, 4454, 4462, 4509, 4617, 5123, 5707, 5807, 8201, 8202
20²¹	160, 205, 275 bp	1070 bp	0721, 0751, 0759	
21^{5,22}	100, 165 bp	1070 bp	072201-072202, 0752	
22	380 bp	1070 bp	0723	4079
23⁵	85 bp	1070 bp	0720, 0724	4063
24^{5,9}	125 bp	1070 bp	0725, 0739, 0748	2736, 3566, 400101-400106, 4007, 4010, 4012, 401401-401403, 4021, 4022N, 4025, 4030, 4031, 4033, 4034, 4036, 4038, 4042, 4043, 4045-4049, 4052, 4054, 4055, 4059-4063, 4065, 4066, 4069, 407201-4074, 4076, 4077, 4079-4081, 4084, 4087, 4088, 4108, 420501-420502, 4431, 4606, 480101-480102, 480301-480302, 4806, 4807, 4809-4812, 4814, 4816-4819, 8101-8104N
25²³	225, 430 bp	800 bp	0720, 0724, 0727, 0745,	0821, 0825, 1507, 1545, 1555, 1568, 9526, 3505, 3522, 3551,

Lot No.: **31F**

Lot-specific Information

			0760	3558, 3572, 3589, 3817, 4005, 4071, 4454, 4612, 5314, 5818, Cw*0305, Cw*0325, Cw*0327
26^{5, 24}	95, 220, 290 bp	800 bp	0720, 0724, 0728, 0742, 0751, 0760	0814, 0821, 0825, 1507, 1545, 1555, 1568, 9526, 2732, 3505, 3522, 3551, 3558, 3572, 3589, 4005, 4071, 4454, 4612, 5314, 5818, Cw*0305, Cw*0325, Cw*0327, Cw*0808
27²⁵	165, 215 bp	800 bp	0729, 0741	
28^{5, 7}	110 bp	1070 bp	0730	
29^{5, 9, 26}	85, 195 bp	800 bp	0731, 0734, 0743, 0744	4108, 420501-420502, Cw*0738
30	190 bp	800 bp	070501-0706, 0732, 0740, 0753	1301-130204, 1307N-1309, 1311, 1313-1323, 2707, 2711, 2720, 2724, 2727, 2733, 2743, 3531, 3588, 400101-400203, 4004, 40060101-4008, 4010-4016, 4019, 4021-4023, 4025, 4027, 4029, 4030, 4034-4038, 4040, 4043, 4045-4050, 4053-4058, 4061, 4062, 4064-4070, 407201-4088, 4090, 4091, 4093, 4431, 480101-480102, 480301-4807, 4809-4816, 4818, 4819, 5110, 5116, 5131, 5134, 5208, 5509, 5522, 5524, 8101-8104N
31²⁷	215, 280 bp	800 bp	0719, 0733, 0753, 0755, 0760	1405, 1507, 1545, 1555, 1568, 9526, 1814, 2707, 2711, 2724, 2732-2734, 2743, 3505, 3522, 3531, 3551, 3558, 3572, 3589, 3709, 3903, 3914, 3924, 3929, 3937, 400201-4003, 4005, 4008, 4009, 4013, 4018, 4019, 4024, 4027, 4029, 4035, 4037, 4039, 4040, 4050, 4056-4058, 4071, 4078, 4082, 4085, 4089-4091, 4208, 4454, 4612, 4804, 4813, 4819, 5314, 5504, 5818, Cw*0305, Cw*0325, Cw*0327, Cw*0808
32²⁸	190 bp	1070 bp	0734	080101-0806, 0808N-0810, 0812, 0813, 0815-0820, 0822-0824, 0826, 0827, 0829-0836, 0838, 1306, 1542, 1583, 1586, 1826, 3560, 3587, 3712, 380101,

Lot No.: **31F**

Lot-specific Information

			380201-3807, 3809-3817, 39010101-39010102L, 390103- 390602, 3908-3914, 3916, 3918- 3920, 3922-3924, 3926-3928, 3930, 3931, 3934-3937, 3939, 3941, 3942, 3944, 3945, 4039, 4051, 4101-410302, 4105-4108, 4201, 4202, 4204-4208, 4618, 5121, 5136, 5401, 5402, 5404, 5405N, 5407, 5408N, 5410-5413, 5417, 550101-5505, 5507, 5510- 5513, 5515-5521, 5525, 5526, 5528-5534, 5610, 5612, 5623, 5820, 5901-5903, 670101-6702
33	345 bp	0761	
34	165 bp	0762	
35⁵	105 bp	0763	
36	250 bp	0764	
37	210 bp	0765	1804, 4058, 560501, 5606, 7801, 780202, 7803
38	215 bp	0766	
39^{8,29}	375, 425 bp	070501-0707, 0714, 071802, 0734, 0740, 0753	151101-151102, 1576, 9501, 9543, 9548, 3910, 3916, 3917, 3920, 4201, 4202, 4204-420502, 4207, 4208, 5404, 5406, 5409, 5411, 5504, 5508, 5517, 5520, 5528, 5603-5606, 5612, 5615, 5618, 5621, 670101-670102, 8101-8104N, 8301
40⁷	270 bp	0756	0826, 4010 [?] , 4021 [?] , 4903
41	395 bp	0758	
42	195 bp	0767N	
43⁹	140 bp	0768	1405, 1507, 1545, 1555, 1568, 9526, 1814, 2732, 3505, 3522, 3551, 3558, 3566, 3572, 3589, 3903, 3914, 3924, 3929, 3937, 4035, 4071, 4454, 4612, 4812, 4814, 5314, 5818
44	150 bp	0710	7301 ^{weakly}
45⁵	105 bp	0727, 0750	0804, 0817, 1503, 1547, 1554, 1561, 1562, 1564, 1568, 1569, 1591, 1598, 9503, 9523, 9527, 9531, 9532, 9551, 2718, 2729, 3803, 390201-390202, 3908, 391301-391302, 3923, 3939, 4012, 4046, 4093, 4440, 4444,

Lot No.: **31F**

Lot-specific Information

480101-4805, 4807-4819, 5518

¹Alleles 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*07 SSP typings.

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

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

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

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

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

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

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-B*07 subtyping.

In addition, wells number 4, 10, 19, 25, 26, 27, 29, 30 and 31 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

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

³For several HLA-B alleles 1st exon 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. We assume that unknown sequences in the 1st exon are conserved within allelic groups.

⁴Due to the sharing of sequence motifs between HLA-B alleles non-HLA-B*07 alleles will be amplified by primer mixes 1 to 8, 10 to 19, 22 to 26, 29 to 32, 37, 39, 40 and 43 to 45. In addition, the Cw*0305, Cw*0325 and Cw*0327 alleles will be amplified by primer mixes 25, 26 and 31, the Cw*0738 allele will be amplified by primer mixes 10, 12, 13, 14, 18 and 29 and the Cw*0808 allele will be amplified by primer mixes 26 and 31.

The B*0716 and B*3707 and the B*0750 and B*4808 alleles will give rise to identical amplification patterns. These alleles can e.g. be distinguished by the HLA-B low resolution primer set.

⁵Specific PCR fragments shorter than 125 base pairs are less intense and not as sharp as longer specific bands.

⁶Primer mix 12 may give rise to a weak false band of approx. 600 base pairs.

⁷Primer mixes 14, 18, 28 and 40 may have tendencies of non-specific amplification.

⁸Primer mixes 5, 9 and 39 may yield less specific PCR product than the other HLA-B*07 primer mixes, most pronounced in primer mix 39.

⁹Primer mixes 14, 24, 29 and 43 have tendencies of giving rise to primer dimer artefacts.

¹⁰Primer mix 7: Specific PCR fragment of 110 bp in the B*0704, B*0719, B*0725, B*0752 and the B*080101-0805, B*0807-0812, B*0814-0819N, B*0821-0824, B*0826-0830N, B*0832-0838, B*3587, B*4101-4105, B*4107, B*4108, B*4201, B*4202, B*4204 to B*4207, B*4209 and B*5520 alleles. Specific PCR fragment of 215 bp in the B*0729 allele.

¹¹Primer mix 8: Specific PCR fragment of 160 bp in the B*0759 allele. Specific PCR fragment of 235 bp in the B*070501-0706, B*0732, B*0734 and the B*400101-400106, B*4007, B*4010, B*4012, B*401401-4016, B*4021-4023, B*4025, B*4030, B*4034, B*4036, B*4038, B*4043, B*4045-4049, B*4054, B*4055, B*4061-4063, B*4065-4067, B*4069, B*407201-4074, B*4076, B*4077, B*4079-4081, B*4084, B*4087, B*4088, B*4108, B*420501-420502, B*4431, B*480101-480102, B*480301-480302, B*4805-4807, B*4809-4812, B*4814-4816, B*4818, B*4819 and B*8101-8104N alleles.

Lot No.: 31F

Lot-specific Information

¹²Primer mix 9: Specific PCR fragment of 240 bp in B*0749 allele. Specific PCR fragment of 355 bp in the B*070501-070503 alleles.

¹³Primer mix 10: Specific PCR fragment of 285 bp in the B*0707, B*0712, B*0714, B*071801-071802 and the B*9538, B*400101-400106, B*4007, B*4010, B*4012, B*401401-401403, B*4021-4023, B*4025, B*4033, B*4036, B*4038, B*4042, B*4043, B*4046-4049, B*4052, B*4054, B*4055, B*4059-4063, B*4065-4067, B*4069, B*407201-4074, B*4076, B*4077, B*4079, B*4081, B*4084, B*4087, B*4088, B*4108, B*4431, B*4606, B*480301-480302, B*4817 and Cw*0738 alleles. Specific PCR fragment of 415 bp in B*0747 allele.

¹⁴Primer mix 11: Specific PCR fragment of 130 bp in B*0739 allele. Specific PCR fragment of 210 bp in the B*0708, B*0710, B*0732, B*0738 and the B*1807, B*1829, B*2701-270402, B*270502-270508, B*270510-2711, B*2713-2715, B*2717, B*2719-2721, B*2723-2728, B*2730-2743, B*3550, B*3583, B*3806, B*3807, B*4008, B*4013, B*4068, B*4806, B*5157 and B*7301 alleles.

¹⁵Primer mix 13: Specific PCR fragment of 85 bp in the B*0731, B*0734, B*0743 and the B*4108, B*420501-420502 and Cw*0738 alleles. Specific PCR fragment of 290 bp in the B*0712, B*0714, B*071801-071802 and the B*4030, B*4034, B*4059 and B*4817 alleles.

¹⁶Primer mix 14: Specific PCR fragment of 110 bp in the B*0726, B*0734, B*0743, B*0748 and the B*0813, B*0825, B*9538, B*2736, B*400101-400106, B*4007, B*4010, B*4012, B*401401-140103, B*4021, B*4022N, B*4025, B*4030, B*4031, B*4033, B*4034, B*4036, B*4038, B*4042, B*4043, B*4045-4049, B*4052, B*4054, B*4055, B*4059-4063, B*4065-4067, B*4069, B*407201-4074, B*4076, B*4077, B*4079-4081, 4084, 4087, 4088, B*4431, B*480101-480102, B*480301-480302, B*4806, B*4807, B*4809-4812, B*4814-4818, B*5315, B*8101-8104N and Cw*0738 alleles. Specific PCR fragment of 395 bp in the B*0713 allele.

¹⁷Primer mix 15: Specific PCR fragment of 385 bp in the B*0754 and the B*4506 alleles. Specific PCR fragment of 425 bp in the B*0711, B*0713, B*0715, B*0747, B*0757 and the B*0806, B*0815, B*0817, B*3920, B*3927, B*4073, B*6702 and B*7301 alleles.

¹⁸Primer mix 17: Specific PCR fragment of 345 bp in the B*0746 allele. Specific PCR fragment of 410 bp in the the B*0711, B*0727, B*0757 and B*0806, B*0817, B*3817 and B*3920 alleles.

¹⁹Primer mix 18: Specific PCR fragment of 265 bp in the B*0712 and the B*3566, B*4059, B*4060, B*4817, and Cw*0738 alleles. Specific PCR fragment of 385 bp in the B*0754 and the B*4506 alleles. Specific PCR fragment of 435 bp in the B*0736, B*0738 and the B*0803, B*380101-380102 B*3805-3807, B*3809-3814, B*3816, B*4418, B*4818, B*490101-490102 and B*4903-4905 alleles.

²⁰Primer mix 19: Specific PCR fragment of 205 bp in the B*1514, B*1591, B*9531, B*3545, B*3571, B*4410, B*4414, B*4417, B*4431, B*4443, B*4445, B*4451, B*4462, B*4509, B*4617, B*5123, B*5707, B*5807, B*8201 and B*8202 alleles. Specific PCR fragment of 250 bp in the B*4454 allele. Specific PCR fragment of 205 and 250 bp in the B*0720 allele. Specific PCR fragment of 250 and 295 bp in the B*0735 allele.

²¹Primer mix 20: Specific PCR fragment of 160 bp in the B*0759 allele. Specific PCR fragment of 205 bp in the B*0751 allele. Specific PCR fragment of 275 bp in the B*0721 allele.

²²Primer mix 21: Specific PCR fragment of 100 bp in the B*0752 allele. Specific PCR fragment of 165 bp in the B*072201-072202 allele.

²³Primer mix 25: Specific PCR fragment of 220 bp in the B*0720, B*0724, B*0745, B*0760 and the B*0821, B*0825, B*1507, B*1545, B*1555, B*1568, B*9526, B*3505, B*3522, B*3551, B*3558, B*3572, B*3589, B*4005, B*4071, B*4454, B*4612, B*5314, B*5818, Cw*0305, Cw*0325 and Cw*0327 alleles. Specific PCR fragment of 425 bp in the B*0727 and B*3817 alleles.

²⁴Primer mix 26: Specific PCR fragment of 95 bp in the B*0728 and B*0814 and B*2732 alleles. Specific PCR fragment of 220 bp in the B*0720, B*0724, B*0751, B*0760 and the B*0821, B*0825, B*1507, B*1545, B*1555, B*1568, B*9526, B*3505, B*3522, B*3551, B*3558, B*3572, 3589, B*4005, B*4071, B*4612, B*5314, B*5818, Cw*0305, Cw*0325, Cw*0327 and Cw*0808 alleles. Specific PCR fragment of 290 bp in the B*0742 allele. Specific PCR fragments of 95 and 220 bp in the B*4454 allele

²⁵Primer mix 27: Specific PCR fragment of 165 bp in the B*0741 allele . Specific PCR fragment of 215 bp in the B*0729 allele.

²⁶Primer mix 29: Specific PCR fragment of 95 bp in the B*0731, B*0734, B*0743 and the B*4108, B*420501-420502 and Cw*0738 alleles. Specific PCR fragment of 195 bp in the B*0744 allele.

²⁷Primer mix 31: Specific PCR fragment of 215 bp in the B*0755 and the B*4819 alleles. Specific PCR fragment of 280 bp in the B*0719, B*0733, B*0753, B*0760 and the B*1405,

Lot No.: 31F

Lot-specific Information

B*1555, B*1814, B*2707, B*2711, B*2724, B*2732-2734, B*2743, B*3505, B*3522, B*3531, B*3551, B*3558, B*3572, B*3589, B*3709, B*3903, B*3914, B*3924, B*3929, B*3937, B*400201-4003, B*4005, B*4008, B*4009, B*4013, B*4018, B*4019, B*4024, B*4027, B*4029, B*4035, B*4037, B*4039, B*4040, B*4050, B*4056-4058, B*4071, B*4078, B*4078, B*4082, B*4085, B*4089-4091, B*4208, B*4454, B*4804, B*4813, B*5314, B*5504, B*5818, Cw*0305, Cw*0325, Cw*0327 and Cw*0808 alleles. Specific PCR fragments of 215 and 280 bp in the B*4612, B*1507, B*1545, B*1568 and B*9526 alleles.

²⁸Primer mix 32 may give rise to a faint band in the B*1401 to 1407N, B*3701, B*3703-3712, B*3917, Cw*0103, Cw*04010101 to 040102, Cw*0403 to 0407, Cw*0409 to 0417, Cw*0501, C*0503, Cw*0505 to 0512, Cw*0609, Cw*080101 to 0805, Cw*0807, Cw*0808, Cw*0810, Cw*0812 and Cw*1801 to 1802.

²⁹Primer mix 39: Specific PCR fragment of 375 bp in the B*0707, B*0714, B*071802 and B*151101-151102, B*1576, B*9501, B*9543, B*9548, B*3910, B*3916, B*3917, B*3920, B*5406, B*5409, B*5603, B*5604, B*5618, B*670101 and B* 8301 alleles. Specific PCR fragment of 425 bp in the B*070501-0706, B*0734, B*0740, B*0753 and the B*4201, B*4202, B*4204-420502, B*4207, B*4208, B*5404, B*5411, B*5504, B*5517, B*5520, B*5528, B*560501-5606, B*5615, B*5621and B*8101-8104N alleles. Specific PCR fragment of 375 and 425 bp in the B*5508 and B*5612 alleles.

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

Lot-specific Information

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0088

Lot-specific Information

CE
0088

Lot No.: **31F**

Lot-specific Information

Length of spec.	400	285	235	105	220	215	110	160	240	285	130	230	85	110	385	230	345	265	205	160	100	380	85	125																
PCR product(s)							215	110	355	240	415	285	210	130		290	85	395	110	425	385		430	345	435	385	265	295	250	205	275	205	160	165	100		380	85	125	
								235	160																															
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24																
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*0732		2		4		6		8			11		13																											
*0733	1				5																																			
*0734	1	2			5			8					13	14																										
*0735	1	2	3	4	5														19																					
*0736	1	2	3	4	5													18																						
*0737		2	3	4												16																								
*0738		2	3	4		6					11					16		18																						
*0739	1	2	3	4	5						11													24																
*0740	1				5																																			
*0741	1	2	3	4	5																																			
*0742	1	2	3	4	5																																			
*0743	1	2	3		5								13	14																										
*0744	1	2	3	4	5																																			
*0745	1	2	3	4	5																																			
*0746	1	2	3	4	5												17																							
*0747	1	2	3	4	5					10					15																									
*0748	1	2	3		5									14									24																	
*0749N	1	2	3	4	5				9																															
*0750, *4808 ⁶		2	3	4		6										16																								
*0751	1	2	3	4	5															20																				
*0752	1	2	3	4	5		7														21																			
*0753	1				5																																			
*0754	1	2	3	4	5										15			18																						
*0755	1	2	3		5																																			
*0756	1	2	3	4	5																																			
*0757	1	2	3	4	5										15		17																							
*0758	1	2	3	4	5																																			
*0759	1	2	3	4	5			8												20																				
*0760	1				5																																			
*0761	1	2	3	4	5																																			
*0762	1	2	3	4	5																																			
*0763	1	2	3	4	5																																			
*0764	1	2	3	4	5																																			
*0765		2	3	4																																				
*0766	1	2	3		5																																			
*0767N	1	2	3	4	5																																			
*0768	1	2	3	4	5																																			
*080101-0802, 0805, 0808N-0810, 0812, 0816, 0818, 0819N, 0822-0824,0827, 0829, 0830N, 0832-0834, 0836, 0838, 3587, 4101-410302, 4105, 4107							7																																	
*0803							7											18																						
*0804							7																																	
*0806															15		17																							
*0807, 0811, 4104							7																																	
*0813														14																										
*0814							7																																	
*0815							7								15																									
*0817							7								15		17																							
*0820, 0831, 1306, 1542, 1583, 1586, 3560, 3904, 3912, 4051, 4106, 4618, 5121, 5136, 5401, 5405N, 5407, 5408N, 5410, 5412, 5413, 5417, 550101-5503, 5505, 5507, 5511-5513, 5515, 5516, 5519, 5521, 5525, 5526, 5529-5534, 5610, 5623, 5820, 5901-5903																																								
*0821							7																																	
*0825															14																									
*0826							7																																	
*0828, 0837							7					12																												
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24																

Lot No.: **31F**

Lot-specific Information

																									Length of spec.
430	225																								PCR product(s)
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45					Well No.
				29																					*0731
					30																				*0732
						31																			*0733
				29			32							39											*0734
																									*0735
																									*0736
																									*0737
																									*0738
																									*0739
					30									39											*0740
		27																							*0741
	26																								*0742
				29																					*0743
				29																					*0744
25																									*0745
																									*0746
																									*0747
																									*0748
																									*0749N
																				45					*0750, *4808 ⁶
	26																								*0751
																									*0752
					30	31								39											*0753
																									*0754
						31																			*0755
															40										*0756
																									*0757
																41									*0758
																									*0759
25	26				31																				*0760
								33																	*0761
								34																	*0762
									35																*0763
										36															*0764
											37														*0765
												38													*0766
																	42								*0767N
																		43							*0768
							32																		*080101-0802, 0805, 0808N-0810, 0812, 0816, 0818, 0819N, 0822-0824, 0827, 0829, 0830N, 0832-0834, 0836, 0838, 3587, 4101-410302, 4105, 4107
							32																		*0803
							32																		*0804
							32																		*0806
																									*0807, 0811, 4104
							32																		*0813
	26																								*0814
							32																		*0815
							32																		*0817
																									*0820, 0831, 1306, 1542, 1583, 1586, 3560, 3904, 3912, 4051, 4106, 4618, 5121, 5136, 5401, 5405N, 5407, 5408N, 5410, 5412, 5413, 5417, 550101-5503, 5505, 5507, 5511-5513, 5515, 5516, 5519, 5521, 5525, 5526, 5529-5534, 5610, 5623, 5820, 5901-5903
25	26																								*0821
25	26																								*0825
							32							40											*0826
																									*0828, 0837
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45					Well No.

Lot No.: **31F**

Lot-specific Information

Length of spec.	400	285	235	105	220	215	110	160	240	285	130	230	85	110	385	230	345	265	205	160	100	380	85	125
PCR product(s)							215	235	355	415	210		290	395	425		430	385	295	275	165			
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*0835							7					12												
*1301-130204, 1307N-1309, 1311, 1313, 1315-1323, 3588, 4053, 5110, 5116, 5131, 5134, 5208, 5509, 5522, 5524																								
*1314, 4004, 40060101-400602, 4011, 4064, 4070, 4075, 4083, 4086						6										16								
*1401, 1407N, 1408, 180102, 1803, 2712, 2716, 3915, 3925N, 3932, 3933, 3938Q, 3940N, 3943, 4104						6																		
*1405																								
*1503, 1547, 1554, 1561, 1562, 1564, 1569, 1598, 9503, 9523, 9527, 9532, 9551, 4440, 4444																								
*1507, 1545, 1555, 9526, 3505, 3522, 3551, 3558, 3572, 3589, 4612, 5314, 5818																								
*151101-151102, 1576, 9501, 9543, 9548, 5406, 5409, 5508, 5603, 5604, 560502, 5615, 5618, 5621, 8301																								
*1514, 3545, 3571, 4410, 4414, 4417, 4443, 4445, 4451, 4462, 4509, 4617, 5123, 5707, 5807, 8201, 8202																		19						
*1568						6										16								
*1571, 180101, 180103, 1802, 1805, 1806, 1808-1813, 1815, 1817N-1824, 1827, 1828, 1830-1832, 370101-3706, 3708, 3710, 3711, 3713, 3714, 3808, 4020, 4026, 4028, 4044						6										16								
*1591, 9531																		19						
*9538		3							10		12		14											
*1804, 7801, 780202, 7803																								
*1807, 1829, 2723, 3550, 3584, 5157						6				11						16								
*1814						6										16								
*1826, 3712, 380201-380202, 3804, 3815, 3905, 3911						6										16								
*2701					5						11					16								
*2702-270402, 270502-270508, 270510, 2706, 2708-2710, 2713-2715, 2717, 2719, 2721, 2725, 2726, 2728, 2730, 2731, 2735, 2737, 2738, 2740-2742					5						11													
*270509					5																			
*2707, 2711, 2724, 2733, 2743					5						11													
*2718, 2729, 4802						6										16								
*2720, 2727					5						11													
*2732					5						11													
*2734					5						11													
*2736					5						11			14									24	
*2739											11													
*3531																								
*3566		2	3	4								12						18						24
*3709, 4003, 4009, 4018, 4024, 4089						6										16								
*380101, 3809-3812, 3816						6										16		18						
*380102						6										16		18						
*3803, *390201-390202, 3923, 3939						6																		
*3805																		18						
*3806, 3807						6					11					16		18						
*3813, 3814						6												18						
*3817						6										16	17							
*39010101-39010102L, 390103-390106, 390601-390602, 3909, 3918-391902, 3922, 3926, 3928, 3930, 3931, 3934-3936, 3941, 3942, 3944, 3945						6																		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

Lot-specific Information

[illegible]

Lot No.: **31F**

Lot-specific Information

Length of spec.	400	285	235	105	220	215	110	160	240	285	130	230	85	110	385	230	345	265	205	160	100	380	85	125
PCR product(s)							215	235	355	415	210		290	395	425		430	385	295	275	165			
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*3903, 3914, 3924						6																		
*3907						?										?								
*3908, 391301-391302						6										16								
*3910, 3916						6																		
*3917						6																		
*3920						6									15	16	17							
*3927						6									15									
*3929						6																		
*3937						6										16								
*400101-400106, 4007, 401401-401403, 4022N, 4025, 4036, 4043, 4047-4049, 4054, 4055, 4061, 4062, 4065, 4066, 4069, 407201-407202, 4076, 4077, 4081, 4084, 4087, 4088								8		10					14									24
*400201-400203, 4019, 4027, 4029, 4037, 4040, 4056, 4057, 4078, 4082, 4085, 4090, 4091						6										16								
*4005						6										16								
*4008, 4013						6					11					16								
*4010, 4021								8		10					14									24
*4012, 4046								8		10					14									24
*4015, 4016		2		4				8																
*4023				4				8		10														
*4030, 4034								8						13	14									24
*4031		2	3												14									24
*4032		2	3	4																				
*4033			3							10				14										24
*4035						6										16								
*4038								8		10		12		14										24
*4039						6										16								
*4042										10				14										24
*4045, 4080		2						8						14										24
*4050						6																		
*4052			3							10		12		14										24
*4058																								
*4059			3							10		12	13	14				18						24
*4060										10		12		14				18						24
*4063								8		10				14								23		24
*4067								8		10				14										
*4068						6					11					16								
*4071						6										16								
*4073								8		10				14	15									24
*4074						6		8		10				14		16								24
*4079								8		10				14								22		24
*4093						6										16								
*4108							7	8		10			13											24
*4201, 4202, 4204	1				5		7																	
*420501-420502	1	2			5		7	8					13											24
*4206	1				5		7																	
*4207						6	7																	
*4208	1				5																			
*4209	1				5		7					12												
*4418, 490101-490102, 4904, 4905																		18						
*4431								8		10				14					19					24
*4454																			19					
*4506	1														15			18						
*4606			3							10		12												24
*480101-480102, 4807, 4809-4811, 4816		2				6		8						14		16								24
*480301-480302						6		8		10				14		16								24
*4804, 4813						6										16								
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

Lot No.: **31F**

Lot-specific Information

430 225	290 220 95	215 165	110	195 85	190	280 215	190	345	165	105	250	210	215	425 375	270	395	195	140	150	105	Length of spec.
PCR product(s)																					
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	Well No.
						31	32											43			*3903, 3914, 3924
																					*3907
							32													45	*3908, 391301-391302
							32							39							*3910, 3916
														39							*3917
							32							39							*3920
							32														*3927
						31												43			*3929
						31	32											43			*3937
					30																*400101-400106, 4007, 401401-401403, 4022N, 4025, 4036, 4043, 4047-4049, 4054, 4055, 4061, 4062, 4065, 4066, 4069, 407201-407202, 4076, 4077, 4081, 4084, 4087, 4088
					30	31															*400201-400203, 4019, 4027, 4029, 4037, 4040, 4056, 4057, 4078, 4082, 4085, 4090, 4091
25	26					31															*4005
					30	31															*4008, 4013
					30									?						45	*4010, 4021
					30																*4012, 4046
					30																*4015, 4016
					30																*4023
					30																*4030, 4034
																					*4031
																					*4032
					30	31												43			*4033
					30																*4035
						31	32														*4038
																					*4039
					30																*4042
					30	31															*4045, 4080
					30																*4050
					30	31															*4052
					30	31						37									*4058
																					*4059
																					*4060
																					*4063
					30																*4067
					30																*4068
25	26					31												43			*4071
					30																*4073
					30																*4074
					30																*4079
					30																*4093
				29			32														*4108
							32							39							*4201, 4202, 4204
				29			32							39							*420501-420502
							32														*4206
							32							39							*4207
						31	32							39							*4208
																					*4209
																					*4418, 490101-490102, 4904, 4905
					30																*4431
25	26					31												43			*4454
																					*4506
																					*4606
					30															45	*480101-480102, 4807, 4809-4811, 4816
					30															45	*480301-480302
					30	31														45	*4804, 4813
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	Well No.

Lot No.: **31F**

Lot-specific Information

Length of spec.	400	285	235	105	220	215	110	160	240	285	130	230	85	110	385	230	345	265	205	160	100	380	85	125
PCR product(s)							215	235	355	415	210		290	395	425		430	385	295	205	165			
																		435	295	275				
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*4805		2		4		6		8								16								
*4806		2				6		8			11			14		16								24
*4812		2				6		8						14		16								24
*4814		2				6		8				12		14		16								24
*4815		2				6		8						14		16								
*4817						6				10			13	14		16		18						24
*4818		2				6		8						14		16		18						24
*4819		2				6		8								16								24
*4903																		18						
*5315												12		14										
*5402, 5510					5																			
*5404, 5411, 5517, 5528, 5612																								
*5504																								
*5518																								
*5520							7																	
*560501, 5606																								
*5710																16								
*670101-670102	1				5																			
*6702					5											15								
*7301					5						11					15								
*8101, 8103, 8104N		2			5			8						14										24
*8102	1	2			5			8						14										24
HLA-B allele ⁴																								
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Cw*0305, Cw*0325, Cw*0327																								
Cw*0738										10		12	13	14				18						
Cw*0808																								
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-B*07 subtyping.

In addition, wells number 4, 10, 19, 25, 26, 27, 29, 30 and 31 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

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

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

³The nucleotide position, in 2nd, 3rd or 4th exon, 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 web site. The sequence of the 3 terminal nucleotides of the primer is given.

⁴The sequence of B*0701 has been shown to be in error.

Lot No.: **31F**

Lot-specific Information

430	225	95	165	110	85	190	215	190	345	165	105	250	210	215	375	270	395	195	140	150	105	Length of spec.
	290	220	215		195		280	215							425	375						PCR product(s)
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	Well No.	
					30															45	*4805	
					30																*4806	
					30													43		45	*4812	
					30													43		45	*4814	
					30															45	*4815	
					30															45	*4817	
					30															45	*4818	
					30	31														45	*4819	
															40						*4903	
																					*5315	
							32														*5402, 5510	
							32							39							*5404, 5411, 5517, 5528, 5612	
						31	32							39							*5504	
							32													45	*5518	
							32							39							*5520	
												37		39							*560501, 5606	
																					*5710	
							32							39							*670101-670102	
							32														*6702	
																			w		*7301	
					30									39							*8101, 8103, 8104N	
					30									39							*8102	
																					HLA-B allele ⁴	
25	26	27	28	29	30	31	32														Well No.	
25	26					31															Cw*0305, Cw*0325, Cw*0327	
				29																	Cw*0738	
	26					31															Cw*0808	
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	Well No.	

⁵Primer mix 7: Specific PCR fragment of 110 bp in the B*0704, B*0719, B*0725, B*0752 and the B*080101-0805, B*0807-0812, B*0814-0819N, B*0821-0824, B*0826-0830N, B*0832-0838, B*3587, B*4101-4105, B*4107, B*4108, B*4201, B*4202, B*4204 to B*4207, B*4209 and B*5520 alleles. Specific PCR fragment of 215 bp in the B*0729 allele.

Primer mix 8: Specific PCR fragment of 160 bp in the B*0759 allele. Specific PCR fragment of 235 bp in the B*070501-0706, B*0732, B*0734 and the B*400101-400106, B*4007, B*4010, B*4012, B*401401-4016, B*4021-4023, B*4025, B*4030, B*4034, B*4036, B*4038, B*4043, B*4045-4049, B*4054, B*4055, B*4061-4063, B*4065-4067, B*4069, B*407201-4074, B*4076, B*4077, B*4079-4081, B*4084, B*4087, B*4088, B*4108, B*420501-420502, B*4431, B*480101-480102, B*480301-480302, B*4805-4807, B*4809-4812, B*4814-4816, B*4818, B*4819 and B*8101-8104N alleles.

Primer mix 9: Specific PCR fragment of 240 bp in B*0749 allele. Specific PCR fragment of 355 bp in the B*070501-070503 alleles.

Primer mix 10: Specific PCR fragment of 285 bp in the B*0707, B*0712, B*0714, B*071801-071802 and the B*9538, B*400101-400106, B*4007, B*4010, B*4012, B*401401-401403, B*4021-4023, B*4025, B*4033, B*4036, B*4038, B*4042, B*4043, B*4046-4049, B*4052, B*4054, B*4055, B*4059-4063, B*4065-4067, B*4069, B*407201-4074, B*4076, B*4077, B*4079, B*4081, B*4084, B*4087, B*4108, B*4431, B*4606, B*480301-480302, B*4817 and Cw*0738 alleles. Specific PCR fragment of 415 bp in B*0747 allele.

Primer mix 11: Specific PCR fragment of 130 bp in B*0739 allele. Specific PCR fragment of 210 bp in the B*0708, B*0710, B*0732, B*0738 and the B*1807, B*1829, B*2701-270402, B*270502-270508, B*270510-2711, B*2713-2715, B*2717, B*2719-2721, B*2723-2728, B*2730-2743, B*3550, B*3583, B*3806, B*3807, B*4008, B*4013, B*4068, B*4806, B*5157 and B*7301 alleles.

Lot No.: 31F

Lot-specific Information

Primer mix 13: Specific PCR fragment of 85 bp in the B*0731, B*0734, B*0743 and the B*4108, B*420501-420502 and Cw*0738 alleles. Specific PCR fragment of 290 bp in the B*0712, B*0714, B*071801-071802 and the B*4030, B*4034, B*4059 and B*4817 alleles.

Primer mix 14: Specific PCR fragment of 110 bp in the B*0726, B*0734, B*0743, B*0748 and the B*0813, B*0825, B*9538, B*2736, B*400101-400106, B*4007, B*4010, B*4012, B*401401-140103, B*4021, B*4022N, B*4025, B*4030, B*4031, B*4033, B*4034, B*4036, B*4038, B*4042, B*4043, B*4045-4049, B*4052, B*4054, B*4055, B*4059-4063, B*4065-4067, B*4069, B*407201-4074, B*4076, B*4077, B*4079-4081, 4084, 4087, 4088, B*4431, B*480101-480102, B*480301-480302, B*4806, B*4807, B*4809-4812, B*4814-4818, B*5315, B*8101-8104N and Cw*0738 alleles. Specific PCR fragment of 395 bp in the B*0713 allele.

Primer mix 15: Specific PCR fragment of 385 bp in the B*0754 and the B*4506 alleles. Specific PCR fragment of 425 bp in the B*0711, B*0713, B*0715, B*0747, B*0757 and the B*0806, B*0815, B*0817, B*3920, B*3927, B*4073, B*6702 and B*7301 alleles.

Primer mix 17: Specific PCR fragment of 345 bp in the B*0746 allele. Specific PCR fragment of 410 bp in the the B*0711, B*0727, B*0757 and B*0806, B*0817, B*3817 and B*3920 alleles.

Primer mix 18: Specific PCR fragment of 265 bp in the B*0712 and the B*3566, B*4059, B*4060, B*4817, and Cw*0738 alleles. Specific PCR fragment of 385 bp in the B*0754 and the B*4506 alleles. Specific PCR fragment of 435 bp in the B*0736, B*0738 and the B*0803, B*380101-380102 B*3805-3807, B*3809-3814, B*3816, B*4418, B*4818, B*490101-490102 and B*4903-4905 alleles.

Primer mix 19: Specific PCR fragment of 205 bp in the B*1514, B*1591, B*9531, B*3545, B*3571, B*4410, B*4414, B*4417, B*4431, B*4443, B*4445, B*4451, B*4462, B*4509, B*4617, B*5123, B*5707, B*5807, B*8201 and B*8202 alleles. Specific PCR fragment of 250 bp in the B*4454 allele. Specific PCR fragment of 205 and 250 bp in the B*0720 allele. Specific PCR fragment of 250 and 295 bp in the B*0735 allele.

Primer mix 20: Specific PCR fragment of 160 bp in the B*0759 allele. Specific PCR fragment of 205 bp in the B*0751 allele. Specific PCR fragment of 275 bp in the B*0721 allele.

Primer mix 21: Specific PCR fragment of 100 bp in the B*0752 allele. Specific PCR fragment of 165 bp in the B*072201-072202 allele.

Primer mix 25: Specific PCR fragment of 220 bp in the B*0720, B*0724, B*0745, B*0760 and the B*0821, B*0825, B*1507, B*1545, B*1555, B*1568, B*9526, B*3505, B*3522, B*3551, B*3558, B*3572, B*3589, B*4005, B*4071, B*4454, B*4612, B*5314, B*5818, Cw*0305, Cw*0325 and Cw*0327 alleles. Specific PCR fragment of 425 bp in the B*0727 and B*3817 alleles.

Primer mix 26: Specific PCR fragment of 95 bp in the B*0728 and B*0814 and B*2732 alleles. Specific PCR fragment of 220 bp in the B*0720, B*0724, B*0751, B*0760 and the B*0821, B*0825, B*1507, B*1545, B*1555, B*1568, B*9526, B*3505, B*3522, B*3551, B*3558, B*3572, 3589, B*4005, B*4071, B*4612, B*5314, B*5818, Cw*0305, Cw*0325, Cw*0327 and Cw*0808 alleles. Specific PCR fragment of 290 bp in the B*0742 allele. Specific PCR fragments of 95 and 220 bp in the B*4454 allele

Primer mix 27: Specific PCR fragment of 165 bp in the B*0741 allele . Specific PCR fragment of 215 bp in the B*0729 allele.

Primer mix 29: Specific PCR fragment of 95 bp in the B*0731, B*0734, B*0743 and the B*4108, B*420501-420502 and Cw*0738 alleles. Specific PCR fragment of 195 bp in the B*0744 allele.

Primer mix 31: Specific PCR fragment of 215 bp in the B*0755 and the B*4819 alleles. Specific PCR fragment of 280 bp in the B*0719, B*0733, B*0753, B*0760 and the B*1405, B*1555, B*1814, B*2707, B*2711, B*2724, B*2732-2734, B*2743, B*3505, B*3522, B*3531, B*3551, B*3558, B*3572, B*3589, B*3709, B*3903, B*3914, B*3924, B*3929, B*3937, B*400201-4003, B*4005, B*4008, B*4009, B*4013, B*4018, B*4019, B*4024, B*4027, B*4029, B*4035, B*4037, B*4039, B*4040, B*4050, B*4056-4058, B*4071, B*4078, B*4078, B*4082, B*4085, B*4089-4091, B*4208, B*4454, B*4804, B*4813, B*5314, B*5504, B*5818, Cw*0305, Cw*0325, Cw*0327 and Cw*0808 alleles. Specific PCR fragments of 215 and 280 bp in the B*4612, B*1507, B*1545, B*1568 and B*9526 alleles.

Primer mix 32 may give rise to a faint band in the B*1401 to 1407N, B*3701, B*3703-3712, B*3917, Cw*0103, Cw*04010101 to 040102, Cw*0403 to 0407, Cw*0409 to 0417, Cw*0501, C*0503, Cw*0505 to 0512, Cw*0609, Cw*080101 to 0805, Cw*0807, Cw*0808, Cw*0810, Cw*0812 and Cw*1801 to 1802.

Primer mix 39: Specific PCR fragment of 375 bp in the B*0707, B*0714, B*071802 and B*151101-151102, B*1576, B*9501, B*9543, B*9548, B*3910, B*3916, B*3917, B*3920, B*5406, B*5409, B*5603, B*5604, B*5618, B*670101 and B* 8301 alleles. Specific PCR fragment of 425 bp in the B*070501-0706, B*0734, B*0740, B*0753 and the B*4201, B*4202, B*4204-420502, B*4207, B*4208, B*5404, B*5411, B*5504, B*5517, B*5520, B*5528, B*560501-5606, B*5615, B*5621 and B*8101-8104N alleles. Specific PCR fragment of 375 and 425 bp in the B*5508 and B*5612 alleles.

⁶The B*0716, B*3707 and the B*0750, B*4808 alleles will give rise to identical amplification patterns. These alleles can e.g. be distinguished by the HLA-B low resolution primer set.

'w', might be weakly amplified.

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

Lot No.: **31F**

Lot-specific Information

CELL LINE VALIDATION SHEET																				
HLA-B*07 SSP subtyping kit																				
					Well															
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				Prod. No.:	200853401	200626802	200626803	200626804	200626805	200626806	200738407	200738408	200853409	200626810	200853411	200853412	200626813	200626814	200853415	200626816
	IHWC cell line		B*																	
1	9001	SA	*0702		+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-
2	9002	MZ0707082	*1402		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011	E4181324	*52011		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9010	AMAI	*5301		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*3701		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+
6	9016	RML	*5101		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020	QBL	*1801		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+
8	9025	DEU	*35		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*3801		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+
10	9107	LKT3	*5401		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*44031		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*5701		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9067	BTB	*27052		-	-	-	-	-	+	-	-	-	-	+	-	-	-	-	-
14	9071	OLGA	*1501	*1520	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
15	9075	DKB	*4001		-	-	-	-	-	-	-	+	-	+	-	-	-	+	-	-
16	9036	SPO010	*4402		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9039	JVM	*1801		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+
18	9089	BOB	*5101		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*1801		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+
20	9059	SLE005	*4001		-	-	-	-	-	-	-	+	-	+	-	-	-	+	-	-
21	9064	AMALA	*1501		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*3503		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9061	31227ABO	*1801		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+
24	9035	JBUSH	*3801		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+
25	9049	IBW9	*1402		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*5801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27		MAM	*1402		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*44		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*44031		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*4201		+	-	-	-	+	-	+	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*1801		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+
32	9297	HAG	*4102		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*4001		-	-	-	-	-	-	-	+	-	+	-	-	-	+	-	-
34	9104	DHIF	*38		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+
35	9302	SSTO	*44		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*1501	*3501	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*0702		+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*1501		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*0801	*2705	-	-	-	-	+	-	-	+	-	-	+	-	-	-	-	-
40	9134	WHONP199	*1302	*46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*1402		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*4601		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*4601		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*3801		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+
45	9058	OMV	*4501		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*0702		+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*5101		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*35	*44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49	9255	GEE018	*0705	*1519	+	+	-	+	+	-	-	+	+	-	-	-	-	-	-	-

Lot-specific Information

[illegible]

Lot No.: **31F**

Lot-specific Information

CELL LINE VALIDATION SHEET																		
HLA-B*07 SSP subtyping kit																		
					Prod. No.:	Well												
						33	34	35	36	37	38	39	40	41	42	43	44	45
						200853433	200853434	200853435	200853436	200853437	200853438	200853439	200853440	200853441	200853442	200853443	200853444	200853445
	IHWC cell line		B*															
1	9001	SA	*0702			-	-	-	-	-	-	-	-	-	-	-	-	-
2	9002	MZ0707082	*1402			-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011	E4181324	*52011			-	-	-	-	-	-	-	-	-	-	-	-	-
4	9010	AMAI	*5301			-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*3701			-	-	-	-	-	-	-	-	-	-	-	-	-
6	9016	RML	*5101			-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020	QBL	*1801			-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*35			-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*3801			-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*5401			-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*44031			-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*5701			-	-	-	-	-	-	-	-	-	-	-	-	-
13	9067	BTB	*27052			-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*1501	*1520		-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*4001			-	-	-	-	-	-	-	-	-	-	-	-	-
16	9036	SPO010	*4402			-	-	-	-	-	-	-	-	-	-	-	-	-
17	9039	JVM	*1801			-	-	-	-	-	-	-	-	-	-	-	-	-
18	9089	BOB	*5101			-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*1801			-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*4001			-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*1501			-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*3503			-	-	-	-	-	-	-	-	-	-	-	-	-
23	9061	31227ABO	*1801			-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035	JBUSH	*3801			-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*1402			-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*5801			-	-	-	-	-	-	-	-	-	-	-	-	-
27		MAM	*1402			-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*44			-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*44031			-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*4201			-	-	-	-	-	-	+	-	-	-	-	-	-
31	9019	DUCAF	*1801			-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*41			-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*4001			-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*38			-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*44			-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*1501	*3501		-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*0702			-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*1501			-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*0801	*2705		-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*1302	*46		-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*1402			-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*4601			-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*4601			-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*3801			-	-	-	-	-	-	-	-	-	-	-	-	-
45	9058	OMV	*4501			-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*0702			-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*5101			-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*35	*44		-	-	-	-	-	-	-	-	-	-	-	-	-
49	9255	GEE018	*0705	*1519		-	-	-	-	-	-	+	-	-	-	-	-	-

Lot No.: **31F**

Lot-specific Information

CERTIFICATE OF ANALYSIS

Olerup SSP® HLA-B*07 SSP

Product number: 101.512-24u/03u – without *Taq* pol.
Lot number: 31F
Expiry date: 2010-December-01
Number of tests: 24 tests – Product No. 101.512-24u
3 tests – Product No. 101.512-03u
Number of wells per test: 45

Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2008-534-01	16	2006-268-16	31	2007-384-31
2	2006-268-02	17	2008-534-17	32	2006-268-32
3	2006-268-03	18	2008-534-18	33	2008-534-33
4	2006-268-04	19	2006-268-19	34	2008-534-34
5	2006-268-05	20	2007-384-20	35	2008-534-35
6	2006-268-06	21	2007-384-21	36	2008-534-36
7	2007-384-07	22	2007-384-21	37	2008-534-37
8	2007-384-08	23	2006-268-23	38	2008-534-38
9	2008-534-09	24	2006-268-24	39	2008-534-39
10	2006-268-10	25	2007-384-25	40	2008-534-40
11	2008-534-11	26	2007-384-26	41	2008-534-41
12	2008-534-12	27	2008-534-27	42	2008-534-42
13	2006-268-13	28	2008-534-28	43	2008-534-43
14	2006-268-14	29	2008-534-29	44	2008-534-44
15	2008-534-15	30	2006-268-30	45	2008-534-45

The specificity of each primer solution of the kit has been tested against 49 well characterized cell line DNAs.

No DNAs carrying the alleles to be amplified by primer solutions 12, 13, 17, 20 to 23, 27 to 29, 33 to 36, 38 and 40 to 42 were available. The specificities of the primers in primer solutions 12, 13, 23, 36, 38 and 40 were tested by separately adding one additional 5'-primer, respectively one additional 3'-primer. In primer solution 33 it was only possible to test the 5'-primer, the 3'-primer were not possible to test. In primer solutions 21, 22, 28, 34, 35, 41 and 42 it was only possible to test the 3'-primers, the 5'-primers were not possible to test. In primer solution 27 and 29, one 5' primer was not possible to test, and in primer solutions 15, 17, 20 and 26 one 3'-primer was not possible to test. Additional primers in primer solutions 7, 11, 14, 15, 18, 24, 26 and 31 were tested by separately adding one additional 5'-primer, or one additional 3'-primer.

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

Date of approval: 2009-May-25

Approved by:

Quality Control, Supervisor

Lot No.: **31F**

Lot-specific Information

Declaration of Conformity

Product name: *Olerup* SSP® HLA-B*07
Product number: 101.512-24u/03u
Lot number: 31F

Intended use: HLA-B*07 high resolution histocompatibility testing

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

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

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

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

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

Saltsjöbaden, Sweden
2009-May-25

Olle Olerup
Managing Director

Lot No.: **31F**

Lot-specific Information

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