

## **Olerup SSP<sup>®</sup> HLA-B\*57**

Product number:	101.567-12 – including <i>Taq</i> polymerase
Lot number:	85M
Expiry date:	2014-May-01
Number of tests:	12
Number of wells per test:	24
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. 85M.**

### **CHANGES COMPARED TO THE PREVIOUS *OLERUP SSP*<sup>®</sup> HLA-B\*57 Lot**

The HLA-B\*57 specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup SSP*<sup>®</sup> HLA-B\*57 lot was made (Lot No. 18L).

The HLA-B\*57 primer set is unchanged compared to the previous lot.

## PRODUCT DESCRIPTION

### HLA-B\*57 SSP subtyping

#### CONTENT

The primer set contains 5'- and 3'-primers for identifying the B\*57:01 to B\*57:37 alleles.

#### PLATE LAYOUT

Each 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	24

The 24 well cut PCR plate is marked with ‘HLA-B\*57’ in silver/gray ink.

Well No. 1 is marked with the Lot No. ‘85M’.

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

The interpretation of HLA-B\*57 SSP subtypings will be influenced by the B\*07, four B\*08, several B\*13, the B\*14, most B\*15, six B\*18, many B\*27, most B\*35, most B\*37, two B\*38, four B\*39, several B\*40, the B\*42:13, the B\*44, most B\*46, six B\*48, most B\*49, the B\*50, most B\*51, most B\*52, most B\*53, two B\*54, most B\*55, nine B\*56, most B\*58, most B\*78 and the B\*83:01 allele when present on the other haplotype. In addition, the C\*01:32 and C\*06:20 alleles will be amplified by primer mix 15, the C\*03:102 allele will be amplified by primer mix 1, the C\*05:10 allele will be weakly amplified and the C\*15:25 allele will be amplified by primer mix 4.

#### UNIQUELY IDENTIFIED ALLELES

All the HLA-B\*57 alleles, i.e. **B\*57:01 to B\*57:37**, recognized by the HLA Nomenclature Committee in October 2010 will give rise to unique amplification patterns by the primers in the HLA-B\*57 subtyping kit.

The HLA-B\*57 subtyping kit cannot distinguish the B\*57:01:01-57:01:04 and 57:01:06-57:01:10 alleles, the B\*57:02:01-57:02:02 alleles or the B\*57:03:01-57:03:02 alleles.

<sup>1</sup>HLA-B alleles listed on the IMGT/HLA web page 2010-October-15, release 3.2.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

### RESOLUTION IN HOMO- AND HETEROZYGOTES

A total of 65 alleles generate 38 amplification patterns that can be combined in 741 homozygous and heterozygous combinations. 501 of these genotypes do not give rise to unique amplification patterns. The different lengths of the specific PCR products were not considered in these calculations.

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+++++--	-----	-----	*57:02:01, *57:16 = *57:07, *57:19
+++++--	-----	-----	*57:02:01, *57:10 = *57:17, *57:19
+++++--	-----	+-----	*57:12, *57:27 = *57:12, *57:31
+++++--	-----	-----	*57:12, *57:20 = *57:12, *57:26
+++++--	-----	-----	*57:12, *57:35 = *57:12, *57:36
+++++--	-----	-----	*57:01:01, *57:12 = *57:01:05, *57:12 = *57:02:01, *57:18 = *57:12, *57:18
+++++--	-----	+-----	*57:02:01, *57:27 = *57:02:01, *57:31
+++++--	-----	-----	*57:02:01, *57:20 = *57:02:01, *57:26
+++++--	-----	-----	*57:02:01, *57:35 = *57:02:01, *57:36
+++++--	-----	-----	*57:01:01, *57:02:01 = *57:01:05, *57:02:01 = *57:03:01, *57:19
+++++--	-----	-----	*57:07, *57:14 = *57:07, *57:24
+++++--	-----	-----	*57:07, *57:10 = *57:16, *57:17
+++++--	-----	+-----	*57:07, *57:27 = *57:07, *57:31
+++++--	-----	-----	*57:07, *57:20 = *57:07, *57:26
+++++--	-----	-----	*57:07, *57:35 = *57:07, *57:36
+++++--	-----	-----	*57:01:01, *57:07 = *57:01:05, *57:07 = *57:03:01, *57:16 = *57:07, *57:16
+++++--	-----	+-----	*57:09, *57:22 = *57:09, *57:27 = *57:09, *57:31
+++++--	-----	-----	*57:09, *57:20 = *57:09, *57:26
+++++--	-----	-----	*57:09, *57:35 = *57:09, *57:36
+++++--	-----	-----	*57:01:01, *57:09 = *57:01:05, *57:09 = *57:09, *57:14
+++++--	-----	-----	*57:14, *57:17 = *57:17, *57:24
+++++--	-----	-----	*57:03:01, *57:14 = *57:03:01, *57:24
+++++--	-----	+-----	*57:17, *57:27 = *57:17, *57:31
+++++--	-----	-----	*57:17, *57:20 = *57:17, *57:26
+++++--	-----	-----	*57:17, *57:35 = *57:17, *57:36
+++++--	-----	-----	*57:01:01, *57:17 = *57:01:05, *57:17 = *57:03:01, *57:10 = *57:10, *57:17
+++++--	-----	+-----	*57:03:01, *57:27 = *57:03:01, *57:31
+++++--	-----	-----	*57:03:01, *57:20 = *57:03:01, *57:26
+++++--	-----	-----	*57:03:01, *57:35 = *57:03:01, *57:36
+++++--	-----	-----	*57:01:01, *57:03:01 = *57:01:05, *57:03:01
+++++--	-----	+-----	*57:05, *57:27 = *57:05, *57:31
+++++--	-----	-----	*57:05, *57:20 = *57:05, *57:26
+++++--	-----	-----	*57:05, *57:35 = *57:05, *57:36
+++++--	-----	-----	*57:01:01, *57:05 = *57:01:05, *57:05
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+++++--	-----	-----	*57:04, *57:16 = *57:16, *57:30
+++++--	-----	+-----	*57:06, *57:13 = *57:13, *57:32
+++++--	-----	+-----	*57:04, *57:22 = *57:22, *57:30
+++++--	-----	-----	*57:04, *57:08 = *57:08, *57:30
+++++--	-----	-----	*57:04, *57:14 = *57:14, *57:30
+++++--	-----	-----	*57:04, *57:10 = *57:10, *57:30
+++++--	-----	-----	*57:04, *57:33 = *57:30, *57:33
+++++--	-----	-----	*57:04, *57:29 = *57:29, *57:30
+++++--	-----	-----	*57:04, *57:18 = *57:18, *57:30
+++++--	-----	+-----	*57:04, *57:27 = *57:04, *57:31 = *57:27, *57:30 = *57:30, *57:31
+++++--	-----	-----	*57:04, *57:23 = *57:23, *57:30
+++++--	-----	-----	*57:04, *57:25 = *57:25, *57:30

Lot No.: **85M**

Lot-specific information

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+++---+---	-----+---	-----+---	*57:04, *57:21 = *57:21, *57:30
+++---+---	-----+---	-----+---	*57:04, *57:34 = *57:30, *57:34
+++---+---	-----+---	-----+---	*57:04, *57:35 = *57:04, *57:36 = *57:30, *57:35 = *57:30, *57:36
+++---+---	-----+---	-----+---	*57:04, *57:37 = *57:30, *57:37
+++---+---	-----+---	-----+---	*57:01:01, *57:04 = *57:01:01, *57:30 = *57:01:05, *57:04 = *57:01:05, *57:30 = *57:04, *57:06 = *57:06, *57:19 = *57:06, *57:28N = *57:06, *57:30 = *57:19, *57:32 = *57:30, *57:32
+++---+---	-----+---	-----+---	*57:15, *57:19 = *57:15, *57:28N
+++---+---	-----+---	-----+---	*57:16, *57:19 = *57:16, *57:28N
+++---+---	-----+---	-----+---	*57:13, *57:20 = *57:13, *57:26
+++---+---	-----+---	-----+---	*57:13, *57:35 = *57:13, *57:36
+++---+---	-----+---	-----+---	*57:01:01, *57:13 = *57:13, *57:22 = *57:13, *57:25 = *57:13, *57:27
+++---+---	-----+---	-----+---	*57:19, *57:22 = *57:22, *57:28N
+++---+---	-----+---	-----+---	*57:08, *57:19 = *57:08, *57:28N
+++---+---	-----+---	-----+---	*57:14, *57:19 = *57:14, *57:28N
+++---+---	-----+---	-----+---	*57:10, *57:19 = *57:10, *57:28N
+++---+---	-----+---	-----+---	*57:19, *57:33 = *57:28N, *57:33
+++---+---	-----+---	-----+---	*57:19, *57:29 = *57:28N, *57:29
+++---+---	-----+---	-----+---	*57:18, *57:19 = *57:18, *57:28N
+++---+---	-----+---	-----+---	*57:19, *57:27 = *57:19, *57:31 = *57:27, *57:28N = *57:28N, *57:31
+++---+---	-----+---	-----+---	*57:19, *57:23 = *57:23, *57:28N
+++---+---	-----+---	-----+---	*57:19, *57:25 = *57:25, *57:28N
+++---+---	-----+---	-----+---	*57:19, *57:20 = *57:19, *57:26 = *57:20, *57:28N = *57:26, *57:28N
+++---+---	-----+---	-----+---	*57:19, *57:21 = *57:21, *57:28N
+++---+---	-----+---	-----+---	*57:19, *57:34 = *57:28N, *57:34
+++---+---	-----+---	-----+---	*57:19, *57:35 = *57:19, *57:36 = *57:28N, *57:35 = *57:28N, *57:36
+++---+---	-----+---	-----+---	*57:19, *57:37 = *57:28N, *57:37
+++---+---	-----+---	-----+---	*57:01:01, *57:19 = *57:01:01, *57:28N = *57:01:05, *57:19 = *57:01:05, *57:28N
+++---+---	-----+---	-----+---	*57:06, *57:15 = *57:15, *57:32
+++---+---	-----+---	-----+---	*57:06, *57:16 = *57:16, *57:32
+++---+---	-----+---	-----+---	*57:06, *57:22 = *57:22, *57:32
+++---+---	-----+---	-----+---	*57:06, *57:08 = *57:08, *57:32
+++---+---	-----+---	-----+---	*57:06, *57:14 = *57:06, *57:24 = *57:14, *57:32 = *57:24, *57:32
+++---+---	-----+---	-----+---	*57:06, *57:10 = *57:10, *57:32
+++---+---	-----+---	-----+---	*57:06, *57:33 = *57:32, *57:33
+++---+---	-----+---	-----+---	*57:06, *57:11 = *57:06, *57:29 = *57:29, *57:32
+++---+---	-----+---	-----+---	*57:06, *57:18 = *57:18, *57:32
+++---+---	-----+---	-----+---	*57:06, *57:27 = *57:06, *57:31 = *57:27, *57:32 = *57:31, *57:32
+++---+---	-----+---	-----+---	*57:06, *57:23 = *57:23, *57:32
+++---+---	-----+---	-----+---	*57:06, *57:25 = *57:25, *57:32
+++---+---	-----+---	-----+---	*57:06, *57:20 = *57:06, *57:26 = *57:20, *57:32 = *57:26, *57:32
+++---+---	-----+---	-----+---	*57:06, *57:21 = *57:21, *57:32
+++---+---	-----+---	-----+---	*57:06, *57:34 = *57:32, *57:34
+++---+---	-----+---	-----+---	*57:06, *57:35 = *57:06, *57:36 = *57:32, *57:35 = *57:32, *57:36
+++---+---	-----+---	-----+---	*57:06, *57:37 = *57:32, *57:37
+++---+---	-----+---	-----+---	*57:01:01, *57:06 = *57:01:01, *57:32 = *57:01:05, *57:06 = *57:01:05, *57:32 = *57:06, *57:06 = *57:06, *57:32
+++---+---	-----+---	-----+---	*57:14, *57:15 = *57:15, *57:24
+++---+---	-----+---	-----+---	*57:11, *57:15 = *57:15, *57:29
+++---+---	-----+---	-----+---	*57:15, *57:27 = *57:15, *57:31
+++---+---	-----+---	-----+---	*57:15, *57:20 = *57:15, *57:26
+++---+---	-----+---	-----+---	*57:15, *57:35 = *57:15, *57:36
+++---+---	-----+---	-----+---	*57:01:01, *57:15 = *57:01:05, *57:15 = *57:15, *57:15
+++---+---	-----+---	-----+---	*57:14, *57:16 = *57:16, *57:24
+++---+---	-----+---	-----+---	*57:11, *57:16 = *57:16, *57:29
+++---+---	-----+---	-----+---	*57:16, *57:27 = *57:16, *57:31

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+++-----+ -++++----- \*57:01:01, \*57:16 = \*57:01:05, \*57:16  
+++----- +--+----- +----- \*57:14, \*57:22 = \*57:22, \*57:24  
+++----- +---+--+ +----- \*57:11, \*57:22 = \*57:22, \*57:29  
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+++----- -++----- ------ \*57:14, \*57:18 = \*57:18, \*57:24  
+++----- -++----- +----- \*57:14, \*57:27 = \*57:14, \*57:31 = \*57:24, \*57:27 = \*57:24, \*57:31  
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+++----- -++----- -++----- \*57:14, \*57:21 = \*57:21, \*57:24  
+++----- -++----- -+++++ \*57:14, \*57:34 = \*57:24, \*57:34  
+++----- -++----- -+++++ \*57:14, \*57:35 = \*57:14, \*57:36 = \*57:24, \*57:35 = \*57:24, \*57:36  
+++----- -++----- -+++++ \*57:14, \*57:37 = \*57:24, \*57:37  
+++----- -++----- ------ \*57:01:01, \*57:14 = \*57:01:01, \*57:24 = \*57:01:05, \*57:14 = \*57:01:05,  
\*57:24 = \*57:14, \*57:14 = \*57:14, \*57:24  
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+++----- -+++++ -+++++ \*57:10, \*57:35 = \*57:10, \*57:36  
+++----- -+++++ ------ \*57:01:01, \*57:10 = \*57:01:05, \*57:10 = \*57:10, \*57:10  
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+++----- -+++++ -++----- \*57:01:01, \*57:33 = \*57:01:05, \*57:33 = \*57:11, \*57:21 = \*57:11,  
\*57:33 = \*57:21, \*57:29 = \*57:21, \*57:33 = \*57:29, \*57:33 = \*57:33,  
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+++----- -+++++ -+++++ \*57:11, \*57:37 = \*57:29, \*57:37  
+++----- -+++++ ------ \*57:01:01, \*57:11 = \*57:01:01, \*57:29 = \*57:01:05, \*57:29 = \*57:11,  
\*57:29 = \*57:29, \*57:29  
+++----- -+++++ +----- \*57:18, \*57:27 = \*57:18, \*57:31  
+++----- -+++++ -++----- \*57:18, \*57:20 = \*57:18, \*57:26  
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+++----- -+++++ +----- \*57:20, \*57:27 = \*57:20, \*57:31 = \*57:26, \*57:27 = \*57:26, \*57:31  
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+++----- -+++++ +----- \*57:27, \*57:35 = \*57:27, \*57:36 = \*57:31, \*57:35 = \*57:31, \*57:36

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\*57:26 = \*57:20, \*57:26 = \*57:26, \*57:26  
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\*57:36 = \*57:35, \*57:35 = \*57:35, \*57:36  
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+++----- +-----+ \*57:01:01, \*57:01:01 = \*57:01:01, \*57:01:05  
+++----- +-----+ \*57:04, \*57:13 = \*57:13, \*57:30  
+++----- +-----+ \*57:04, \*57:24 = \*57:24, \*57:30  
+++----- +-----+ \*57:04, \*57:19 = \*57:04, \*57:30 = \*57:19, \*57:30 = \*57:28N, \*57:30 =  
\*57:30, \*57:30  
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+++----- +-----+ \*57:19, \*57:19 = \*57:19, \*57:28N  
+-----+ \*57:02:01, \*57:32 = \*57:03:01, \*57:04  
+-----+ \*57:02:01, \*57:07 = \*57:07, \*57:28N  
+-----+ \*57:02:01, \*57:17 = \*57:17, \*57:28N  
+-----+ \*57:02:01, \*57:03:01 = \*57:03:01, \*57:28N  
+-----+ \*57:03:01, \*57:07 = \*57:05, \*57:07 = \*57:07, \*57:07  
+-----+ \*57:03:01, \*57:17 = \*57:05, \*57:17 = \*57:17, \*57:17  
+-----+ \*57:03:01, \*57:03:01 = \*57:03:01, \*57:05  
+-----+ \*57:04, \*57:32 = \*57:28N, \*57:32  
+-----+ \*57:02:01, \*57:09 = \*57:09, \*57:28N  
+-----+ \*57:02:01, \*57:12 = \*57:05, \*57:12 = \*57:12, \*57:12 = \*57:12, \*57:28N  
+-----+ \*57:02:01, \*57:02:01 = \*57:02:01, \*57:05 = \*57:02:01, \*57:28N  
+-----+ \*57:05, \*57:09 = \*57:09, \*57:09  
+-----+ \*57:04, \*57:04 = \*57:04, \*57:28N  
+-----+ \*57:01:05, \*57:13 = \*57:13, \*57:31  
+-----+ \*57:01:05, \*57:31 = \*57:31, \*57:31

\*57:01:01 = \*57:01:01-57:01:04 and 57:01:06-57:01:10

\*57:02:01 = \*57:02:01-57:02:02

\*57:03:01 = \*57:03:01-57:03:02

## SPECIFICITY TABLE

### HLA-B\*57 SSP subtyping

Specificities and sizes of the PCR products of the 24 primer mixes used for HLA-B\*57 SSP subtyping

Primer Mix	Size of spec. PCR product <sup>1</sup>	Size of control band <sup>2</sup>	Amplified HLA-B*57 alleles	Other amplified HLA Class I alleles <sup>3</sup>
1	150 bp	800 bp	*57:01:01-57:01:04, 57:01:06-57:10, 57:12, 57:14-57:30, 57:32-57:37	*08:49, 13:01:01-13:01:05, 13:06-13:07N, 13:12-13:13, 13:17, 13:20, 13:22:01-13:23, 13:25-13:26, 13:28-13:29, 13:36, 13:39, 14:10, 15:02:01-15:02:05, 15:13, 15:20-15:21, 15:25:01-15:25:03, 15:36, 15:44, 15:62, 15:77, 15:80, 15:85, 15:88-15:89, 15:106, 15:112, 15:121, 15:139, 15:144, 15:154, 15:165, 15:170, 15:194, 15:204, 18:22, 27:19, 27:30, 35:01:01:01-35:04:03, 35:06-35:08:04, 35:10-35:17, 35:19-35:21, 35:23-35:30, 35:33-35:36, 35:38-35:42:02, 35:45-35:50, 35:52, 35:54-35:57, 35:59, 35:61-35:63, 35:65Q, 35:69-35:71, 35:74, 35:76-35:78, 35:80-35:85, 35:90-35:96, 35:98, 35:100-35:101:02, 35:103-35:113, 35:115-35:116, 35:120-35:126, 35:128-35:134N, 35:136-35:150, 37:01:01-37:01:07, 37:03N-37:06, 37:08, 37:10-37:11, 37:13-37:25, 38:20, 39:42, 40:28, 44:02:01:01-44:14, 44:16-44:17, 44:19N, 44:21-44:30, 44:32-44:40, 44:42-44:46, 44:48-44:52N, 44:55-44:64:02, 44:66-44:98, 44:101-44:105, 44:107-44:115, 48:02:01-48:02:02, 51:04, 51:42, 51:46, 51:56, 53:01:01-53:13, 53:15-53:24, 55:14, 56:09, 56:11-56:12, 58:01:01-58:01:02, 58:01:04-58:01:08, 58:04-58:05, 58:09-58:15, 58:17N, 58:19, 58:21-58:24, 58:28-58:31N, 83:01, <b>C*03:102</b>

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<b>2<sup>4</sup></b>	100 bp	1070 bp	*57:01:01- 57:01:10, 57:06, 57:08, 57:10, 57:13-57:16, 57:18-57:27, 57:29-57:31, 57:33-57:37	*55:14, 58:14
<b>3<sup>5</sup></b>	220 bp	1070 bp	*57:01:01- 57:01:10, 57:03:01-57:03:02, 57:06-57:08, 57:10, 57:14- 57:18, 57:20- 57:23, 57:25- 57:27, 57:29, 57:31-57:37	*40:30, 40:34, 55:14, 58:14
<b>4<sup>4</sup></b>	100 bp	<b>800 bp</b>	*57:02:01- 57:03:02, 57:05, 57:07, 57:09, 57:12, 57:17	*08:60, 13:13, 13:21, 35:02:01- 35:02:04, 35:04:01-35:04:03, 35:06 <sup>w</sup> , 35:09:01-35:09:02, 35:12:01-35:12:02, 35:18, 35:59 <sup>w</sup> , 35:81, 35:83, 35:88, 35:95, 35:129N, 35:149, 37:01:01 <sup>w</sup> - 37:01:07 <sup>w</sup> , 37:03N <sup>w</sup> -37:06 <sup>w</sup> , 37:08 <sup>w</sup> , 37:10 <sup>w</sup> -37:11 <sup>w</sup> , 37:12, 37:13 <sup>w</sup> -37:24 <sup>w</sup> , 38:20 <sup>w</sup> , 39:42 <sup>w</sup> , 40:04, 40:28, 40:30, 40:34, 40:64, 40:68, 40:99, 40:129, 40:137, 42:13, 44:62, 44:77, 44:82, 48:17 <sup>w</sup> , 51:04, 51:46, 51:56, 53:19, 56:12, 58:28, <b>C*05:10<sup>w</sup>, C*15:24</b>
<b>5</b>	220 bp	1070 bp	*57:02:01- 57:02:02, 57:04, 57:12-57:13, 57:19, 57:28N, 57:30	
<b>6<sup>4,7</sup></b>	95 bp, 190 bp	1070 bp	*57:04, 57:06, 57:30, 57:32	
<b>7<sup>4</sup></b>	105 bp	1070 bp	*57:15	
<b>8<sup>4,8</sup></b>	90 bp, 250 bp	1070 bp	*57:07, 57:16	
<b>9<sup>6</sup></b>	170 bp	1070 bp	*57:09, 57:13, 57:22	*07:02:01-07:24, 07:26-07:47, 07:49N-07:50, 07:52-07:117, 08:20, 08:53, 13:16, 13:20, 13:31, 14:01:01-14:19, 15:01:01:01- 15:01:04, 15:01:06-15:04, 15:06- 15:19, 15:21, 15:23-15:30,



15:32-15:40, 15:42-15:47, 15:49-15:50, 15:53-15:54, 15:56-15:58, 15:60-15:74, 15:76-15:82, 15:85, 15:87, 15:89-15:90, 15:92-15:99, 15:101-15:104, 15:106, 15:108-15:110, 15:112-15:113, 15:115-15:122, 15:125-15:129, 15:131-15:135, 15:137-15:144, 15:146-15:150, 15:152-15:154, 15:156-15:161, 15:163-15:175, 15:177-15:178, 15:180-15:184, 15:187, 15:189-15:199, 15:201-15:209N, 18:15, 18:19, 18:21, 18:30, 27:04:01-27:04:03, 27:06, 27:10, 27:15, 27:18, 27:20-27:21, 27:24-27:25, 27:40, 27:54, 27:63, 27:66N, 27:68-27:69, 35:11:01-35:11:02, 35:14:01-35:14:02, 35:21, 35:43:01-35:44, 35:58, 35:67, 35:79, 35:86, 35:96, 35:99, 35:102, 35:117-35:118, 35:135, 37:07, 37:13, 38:10, 39:18, 39:35-39:36, 40:05, 40:15-40:16, 40:23, 40:26, 40:28, 40:32, 40:51, 40:95, 40:98, 40:148, 40:158, 44:76, 44:79, 46:01:01-46:05, 46:07N-46:08, 46:10, 46:12, 46:14-46:17, 46:20, 46:22-46:24, 48:05, 48:08, 48:15, 49:01:01-49:10, 49:12-49:15, 50:01:01-50:02, 50:04-50:12, 51:01:01-51:04, 51:06-51:07:02, 51:11N-51:14, 51:16-51:18, 51:21-51:24:04, 51:26-51:30, 51:32-51:39, 51:41N, 51:43, 51:45-51:46, 51:48-51:52, 51:55-51:72, 51:74-51:80, 51:82-51:92, 51:94-51:96, 51:98N-51:106, 52:01:01-52:02, 52:04-52:09, 52:11-52:18, 52:20-52:22, 53:06, 53:08:01-53:08:02, 54:06, 54:20, 55:01:01-55:01:06, 55:03, 55:05, 55:09, 55:11, 55:14-55:15, 55:17, 55:21, 55:24-55:25, 55:28-55:29, 55:31, 55:33, 55:36, 55:38, 55:40, 55:44-55:45, 56:03, 56:05:01-56:06, 56:21, 56:25, 58:06, 58:08, 58:19, 78:01-78:03, 78:05-78:07

**10**      210 bp      1070 bp      \*57:08

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<b>11<sup>9</sup></b>	165 bp, 215 bp	<b>800 bp</b>	*57:09, 57:14, 57:24	*55:14, 58:14
<b>12<sup>4</sup></b>	90 bp	1070 bp	*57:02:01- 57:03:02, 57:07, 57:09, 57:12, 57:17	*40:30, 40:34
<b>13<sup>4</sup></b>	90 bp	<b>800 bp</b>	*57:01:01-57:15, 57:17-57:19, 57:21-57:35, 57:37	
<b>14<sup>10</sup></b>	135 bp, 195 bp	1070 bp	*57:10, 57:17	
<b>15<sup>4,6,11</sup></b>	110 bp, 145 bp,	1070 bp	*57:11, 57:29, 57:33	*14:01:01-14:04, 14:07N, 14:09, 14:11-14:12, 14:14-14:19, 18:44, 40:150, 58:02, 58:06-58:07, 58:25, <b>C*01:32, C*06:20</b>
<b>16<sup>4,12</sup></b>	85 bp, 160 bp	1070 bp	*57:12, 57:18	
<b>17<sup>13</sup></b>	140 bp, 210 bp	1070 bp	*57:13, 57:22, 57:27, 57:31	*40:30, 40:34, 55:14
<b>18</b>	165 bp	1070 bp	*57:23	
<b>19</b>	240 bp	1070 bp	*57:13, 57:25	*40:30, 40:34
<b>20<sup>4,14</sup></b>	90 bp, 240 bp	1070 bp	*57:20, 57:26	*55:14
<b>21<sup>4,15</sup></b>	110 bp, 150 bp	1070 bp	*57:21, 57:33	*35:127
<b>22<sup>4</sup></b>	95 bp	<b>800 bp</b>	*57:34	
<b>23<sup>4,6,16</sup></b>	75 bp, 100 bp	1070 bp	*57:35-57:36	
<b>24</b>	170 bp	1070 bp	*57:37	

<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\*57 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 inherit 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.

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

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-B\*57 subtyping.

In addition, wells number 4, 11, 13 and 22 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

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

<sup>3</sup>Due to the sharing of sequence motifs between HLA-B alleles some non-HLA-B\*57 alleles will be amplified by primer mixes 1 to 4, 9, 11, 12, 15, 17 and 19 to 21. In addition, the C\*01:32 and C\*06:20 alleles will be amplified by primer mix 15, the C\*03:102 allele will be amplified by primer mix 1, the C\*05:10 allele will be weakly amplified and the C\*15:25 allele will be amplified by primer mix 4.

<sup>4</sup>Short specific PCR fragments are less intense and not as sharp as longer specific bands.

<sup>5</sup>Primer mix 3 may give a lower yield of specific PCR product than the other B\*57 primer mixes.

<sup>6</sup>Primer mixes 9, 15 and 23 have a tendency of giving rise to nonspecific amplifications.

<sup>7</sup>Primer mix 6: Specific PCR fragment of 95 bp in the B\*57:04 and 57:32 alleles. Specific PCR fragment of 190 bp in the B\*57:06 and 57:30 alleles.

<sup>8</sup>Primer mix 8: Specific PCR fragment of 90 bp in the B\*57:16 allele. Specific PCR fragment of 250 bp in the B\*57:07 allele.

<sup>9</sup>Primer mix 11: Specific PCR fragment of 165 bp in the B\*57:14 and in the B\*55:14 and 58:14 alleles. Specific PCR fragment of 215 bp in the B\*57:09 and 57:24 alleles.

<sup>10</sup>Primer mix 14: Specific PCR fragment of 135 bp in the B\*57:17 allele. Specific PCR fragment of 195 bp in the B\*57:10 allele.

<sup>11</sup>Primer mix 15: Specific PCR fragment of 110 bp in the B\*57:29 and 57:33 and the B\*40:150 alleles. Specific PCR fragment of 145 bp in the B\*57:11 and the B\*14:01:01-14:04, 14:07N, 14:09, 14:11-14:12, 14:14-14:19, 18:44, 58:02, 58:06-58:07 and 58:25 and in the C\*01:32 and C\*06:20 alleles.

<sup>12</sup>Primer mix 16: Specific PCR fragment of 85 bp in the B\*57:12 allele. Specific PCR fragment of 160 bp in the B\*57:18 allele.

<sup>13</sup>Primer mix 17: Specific PCR fragment of 140 bp in the B\*57:31 and the B\*40:30 and 40:34 alleles. Specific PCR fragment of 210 bp in the B\*57:22 and 57:27 and the B\*55:14 alleles. Specific PCR fragment of 140 and 210 bp in the B\*57:13 allele.

<sup>14</sup>Primer mix 20: Specific PCR fragment of 90 bp in the B\*57:20 allele. Specific PCR fragment of 240 bp in the B\*57:26 and the B\*55:14 alleles.

<sup>15</sup>Primer mix 21: Specific PCR fragment of 110 bp in the B\*57:33 allele. Specific PCR fragment of 150 bp in the B\*57:21 and the B\*35:127 alleles.

<sup>16</sup>Primer mix 23: Specific PCR fragment of 75 bp in the B\*57:35 allele. Specific PCR fragment of 100 bp in the B\*57:36 allele.

‘w’, might be weakly amplified.



<b>INTERPRETATION TABLE</b>												
<b>HLA-B*57 SSP subtyping</b>												
<b>Amplification patterns of the B*57:01 to 57:37 alleles</b>												
<b>Well<sup>4</sup></b>												
13	14	15	16	17	18	19	20	21	22	23	24	
90	135	110	85	140	165	240	90	110	95	75	170	Length of spec. PCR product(s)
	195	145	160	210			240	150		100		
800	1070	1070	1070	1070	1070	1070	1070	1070	800	1070	1070	Length of int. pos. control <sup>1</sup>
209	103	361	256	362	130	362	209	352	200	209	878	
5'-ggC <sup>3'</sup>	5'-CCT <sup>3'</sup>	5'-AgT <sup>3'</sup>	5'-ACg <sup>3'</sup>	5'-ggT <sup>3'</sup>	5'-AgT <sup>3'</sup>	5'-ggT <sup>3'</sup>	5'-ggC <sup>3'</sup>	5'-ACg <sup>3'</sup>	5'-Tcg <sup>3'</sup>	5'-ggC <sup>3'</sup>	5'-gCA <sup>3'</sup>	5'-primer(s) <sup>2</sup>
	446	392	362				362	392				
	5'-CgA <sup>3'</sup>	5'-CgA <sup>3'</sup>	5'-ggT <sup>3'</sup>				5'-ggT <sup>3'</sup>	5'-CgA <sup>3'</sup>				
		704										
		5'-TgT <sup>3'</sup>										
256	256	463	302	463	256	559	259	463	256	244	916	3'-primer(s) <sup>3</sup>
5'-CCC <sup>3'</sup>	5'-CCC <sup>3'</sup>	5'-gCT <sup>3'</sup>	5'-ggC <sup>3'</sup>	5'-gCg <sup>3'</sup>	5'-CCC <sup>3'</sup>	5'-CTC <sup>3'</sup>	5'-CTT <sup>3'</sup>	5'-gCT <sup>3'</sup>	5'-CCC <sup>3'</sup>	5'-CTT <sup>3'</sup>	5'-gAC <sup>3'</sup>	
	539	774	481	527			559			268		
	5'-TCA <sup>3'</sup>	5'-ggT <sup>3'</sup>	5'-gTA <sup>3'</sup>	5'-CCT <sup>3'</sup>			5'-CgT <sup>3'</sup>			5'-gTg <sup>3'</sup>		
				537								
				5'-Agg <sup>3'</sup>								
13	14	15	16	17	18	19	20	21	22	23	24	Well No. HLA-B allele
13												
												*57:01:01-57:01:04, 57:01:06-57:01:10
												*57:01:05
												*57:02:01-57:02:02
												*57:03:01-57:03:02
												*57:04
												*57:05
												*57:06
												*57:07
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

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Length of spec.	150	100	220	100	220	95	105	90	170	210	165	90
PCR product(s)						190		250			215	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*57:08	1	2	3							10		
*57:09	1			4					9		11	12
*57:10	1	2	3									
*57:11												
*57:12	1			4	5							12
*57:13		2			5				9			
*57:14	1	2	3								11	
*57:15	1	2	3				7					
*57:16	1	2	3					8				
*57:17	1		3	4								12
*57:18	1	2	3									
*57:19	1	2			5							
*57:20	1	2	3									
*57:21	1	2	3									
*57:22	1	2	3						9			
*57:23	1	2	3									
*57:24	1	2									11	
*57:25	1	2	3									
*57:26	1	2	3									
*57:27	1	2	3									
*57:28N	1				5							
*57:29	1	2	3									
*57:30	1	2			5	6						
*57:31		2	3									
*57:32	1		3			6						
*57:33	1	2	3									
*57:34	1	2	3									
*57:35	1	2	3									
*57:36	1	2	3									
*57:37	1	2	3									
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

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90	135	110	85	140	165	240	90	110	95	75	170	Length of spec.
	195	145	160	210			240	150		100		PCR product(s)
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
13												*57:08
13												*57:09
13	14											*57:10
13		15										*57:11
13			16									*57:12
13				17		19						*57:13
13												*57:14
13												*57:15
												*57:16
13	14											*57:17
13			16									*57:18
13												*57:19
							20					*57:20
13								21				*57:21
13				17								*57:22
13					18							*57:23
13												*57:24
13						19						*57:25
13							20					*57:26
13				17								*57:27
13												*57:28N
13		15										*57:29
13												*57:30
13				17								*57:31
13												*57:32
13		15						21				*57:33
13									22			*57:34
13										23		*57:35
										23		*57:36
13											24	*57:37
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

Length of spec.	150	100	220	100	220	95	105	90	170	210	165	90
PCR product(s)						190		250			215	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*07:02:01-07:24, 07:26-07:47, 07:49N-07:50, 07:52-07:117, 08:20, 08:53, 13:16, 13:31, 14:05-14:06:02, 14:08, 14:13, 15:01:01-01-15:01:04, 15:01:06-15:01:20, 15:03:01-15:04, 15:06-15:12, 15:14-15:19, 15:23-15:24, 15:26N-15:30, 15:32-15:35, 15:37-15:40, 15:42-15:43, 15:45-15:47, 15:49-15:50, 15:53-15:54, 15:56-15:58, 15:60-15:61, 15:63-15:74, 15:76, 15:78:01-15:79N, 15:81-15:82, 15:87, 15:90, 15:92-15:99, 15:101-15:104, 15:108-15:110, 15:113, 15:115-15:120, 15:122, 15:125-15:129, 15:131-15:135, 15:137-15:138, 15:140-15:143, 15:146-15:150, 15:152-15:153, 15:156-15:161, 15:163-15:164, 15:166-15:169, 15:171-15:175, 15:177-15:178, 15:180-15:184, 15:187, 15:189-15:193, 15:195-15:199, 15:201-15:203, 15:205-15:209N, 18:15, 18:19, 18:21, 18:30, 27:04:01-27:04:03, 27:06, 27:10, 27:15, 27:18, 27:20-27:21, 27:24-27:25, 27:40, 27:54, 27:63, 27:66N, 27:68-27:69, 35:43:01-35:44, 35:58, 35:67, 35:79, 35:86, 35:99, 35:102, 35:117-35:118, 35:135, 37:07, 38:10, 39:18, 39:35-39:36, 40:05, 40:15-40:16, 40:23, 40:26, 40:32, 40:51, 40:95, 40:98, 40:148, 40:158, 46:01:01-46:05, 46:07N-46:08, 46:10, 46:12, 46:14-46:17, 46:20, 46:22-46:24, 48:05, 48:08, 48:15, 49:01:01-49:10, 49:12-49:15, 50:01:01-50:02, 50:04-50:12, 51:01:01-51:03, 51:06-51:07:02, 51:11N-51:14, 51:16-51:18, 51:21-51:24:04, 51:26-51:30, 51:32-51:39, 51:41N, 51:43, 51:45, 51:48-51:52, 51:55, 51:57-51:72, 51:74-51:80, 51:82-51:92, 51:94-51:96, 51:98N-51:106, 52:01:01-52:02, 52:04-52:09, 52:11-52:18, 52:20-52:22, 54:06, 54:20, 55:01:01-55:01:06, 55:03, 55:05, 55:09, 55:11, 55:15, 55:17, 55:21, 55:24-55:25, 55:28-55:29, 55:31, 55:33, 55:36, 55:38, 55:40, 55:44-55:45, 56:03, 56:05:01-56:06, 56:21, 56:25, 58:08, 78:01-78:03, 78:05-78:07									9			
Well No.	1	2	3	4	5	6	7	8	9	10	11	12



Lot No.: **85M**

Lot-specific information

www.olerup-ssp.com

90	135	110	85	140	165	240	90	110	95	75	170	Length of spec.
	195	145	160	210			240	150		100		PCR product(s)
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
												*07:02:01-07:24, 07:26-07:47, 07:49N-07:50, 07:52-07:117, 08:20, 08:53, 13:16, 13:31, 14:05-14:06:02, 14:08, 14:13, 15:01:01-01-15:01:04, 15:01:06-15:01:20, 15:03:01-15:04, 15:06-15:12, 15:14-15:19, 15:23-15:24, 15:26N-15:30, 15:32-15:35, 15:37-15:40, 15:42-15:43, 15:45-15:47, 15:49-15:50, 15:53-15:54, 15:56-15:58, 15:60-15:61, 15:63-15:74, 15:76, 15:78:01-15:79N, 15:81-15:82, 15:87, 15:90, 15:92-15:99, 15:101-15:104, 15:108-15:110, 15:113, 15:115-15:120, 15:122, 15:125-15:129, 15:131-15:135, 15:137-15:138, 15:140-15:143, 15:146-15:150, 15:152-15:153, 15:156-15:161, 15:163-15:164, 15:166-15:169, 15:171-15:175, 15:177-15:178, 15:180-15:184, 15:187, 15:189-15:193, 15:195-15:199, 15:201-15:203, 15:205-15:209N, 18:15, 18:19, 18:21, 18:30, 27:04:01-27:04:03, 27:06, 27:10, 27:15, 27:18, 27:20-27:21, 27:24-27:25, 27:40, 27:54, 27:63, 27:66N, 27:68-27:69, 35:43:01-35:44, 35:58, 35:67, 35:79, 35:86, 35:99, 35:102, 35:117-35:118, 35:135, 37:07, 38:10, 39:18, 39:35-39:36, 40:05, 40:15-40:16, 40:23, 40:26, 40:32, 40:51, 40:95, 40:98, 40:148, 40:158, 46:01:01-46:05, 46:07N-46:08, 46:10, 46:12, 46:14-46:17, 46:20, 46:22-46:24, 48:05, 48:08, 48:15, 49:01:01-49:10, 49:12-49:15, 50:01:01-50:02, 50:04-50:12, 51:01:01-51:03, 51:06-51:07:02, 51:11N-51:14, 51:16-51:18, 51:21-51:24:04, 51:26-51:30, 51:32-51:39, 51:41N, 51:43, 51:45, 51:48-51:52, 51:55, 51:57-51:72, 51:74-51:80, 51:82-51:92, 51:94-51:96, 51:98N-51:106, 52:01:01-52:02, 52:04-52:09, 52:11-52:18, 52:20-52:22, 54:06, 54:20, 55:01:01-55:01:06, 55:03, 55:05, 55:09, 55:11, 55:15, 55:17, 55:21, 55:24-55:25, 55:28-55:29, 55:31, 55:33, 55:36, 55:38, 55:40, 55:44-55:45, 56:03, 56:05:01-56:06, 56:21, 56:25, 58:08, 78:01-78:03, 78:05-78:07
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

Length of spec.	150	100	220	100	220	95	105	90	170	210	165	90
PCR product(s)						190		250			215	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*08:49, 13:01:01-13:01:05, 13:06-13:07N, 13:12, 13:17, 13:22:01-13:23, 13:25-13:26, 13:28-13:29, 13:36, 13:39, 15:20, 15:88, 18:22, 27:19, 27:30, 35:01:01:01-35:01:22, 35:03:01-35:03:07, 35:07-35:08:04, 35:10, 35:13, 35:15-35:17, 35:19-35:20:02, 35:23-35:30, 35:33-35:36, 35:38-35:42:02, 35:45-35:50, 35:52, 35:54-35:57, 35:61-35:63, 35:65Q, 35:69-35:71, 35:74, 35:76-35:78, 35:80, 35:82, 35:84-35:85, 35:90-35:94, 35:98, 35:100-35:101:02, 35:103-35:113, 35:115-35:116, 35:120-35:126, 35:128, 35:130N-35:134N, 35:136-35:148, 35:150, 37:25, 44:02:01:01-44:14, 44:16-44:17, 44:19N, 44:21-44:30, 44:32-44:40, 44:42-44:46, 44:48-44:52N, 44:55-44:61N, 44:63-44:64:02, 44:66-44:75, 44:78, 44:80-44:81, 44:83-44:98, 44:101-44:105, 44:107-44:115, 48:02:01-48:02:02, 51:42, 53:01:01-53:05, 53:07, 53:09-53:13, 53:15-53:18, 53:20-53:24, 56:09, 56:11, 58:01:01-58:01:02, 58:01:04-58:01:08, 58:04-58:05, 58:09-58:13, 58:15, 58:17N, 58:21-58:24, 58:29-58:31N, 83:01, C*03:102	1											
*08:60, 13:21, 35:09:01-35:09:02, 35:18, 35:88, 37:12, 40:04, 40:64, 40:68, 40:99, 40:129, 40:137, 42:13, C*15:24				4								
*13:13, 35:02:01-35:02:04, 35:04:01-35:04:03, 35:12:01-35:12:02, 35:81, 35:83, 35:95, 35:129N, 35:149, 44:62, 44:77, 44:82, 53:19, 56:12, 58:28	1			4								
*13:20, 14:10, 15:02:01-15:02:05, 15:13, 15:21, 15:25:01-15:25:03, 15:36, 15:44, 15:62, 15:77, 15:80, 15:85, 15:89, 15:106, 15:112, 15:121, 15:139, 15:144, 15:154, 15:165, 15:170, 15:194, 15:204, 35:11:01-35:11:02, 35:14:01-35:14:02, 35:21, 35:96, 44:76, 44:79, 53:06, 53:08:01-53:08:02, 58:19	1								9			
*14:01:01-14:04, 14:07N, 14:09, 14:11-14:12, 14:14-14:19, 58:06									9			
*18:44, 40:150, 58:02, 58:07, 58:25, C*01:32, C*06:20												
*35:06, 35:59, 37:01:01-37:01:07, 37:03N-37:06, 37:08, 37:10-37:11, 37:14-37:24, 38:20, 39:42	1			w								
*35:127												
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

Lot No.: **85M**

Lot-specific information

www.olerup-ssp.com

90	135	110	85	140	165	240	90	110	95	75	170	Length of spec.
	195	145	160	210			240	150		100		PCR product(s)
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
												*08:49, 13:01:01-13:01:05, 13:06-13:07N, 13:12, 13:17, 13:22:01-13:23, 13:25-13:26, 13:28-13:29, 13:36, 13:39, 15:20, 15:88, 18:22, 27:19, 27:30, 35:01:01:01-35:01:22, 35:03:01-35:03:07, 35:07-35:08:04, 35:10, 35:13, 35:15-35:17, 35:19-35:20:02, 35:23-35:30, 35:33-35:36, 35:38-35:42:02, 35:45-35:50, 35:52, 35:54-35:57, 35:61-35:63, 35:65Q, 35:69-35:71, 35:74, 35:76-35:78, 35:80, 35:82, 35:84-35:85, 35:90-35:94, 35:98, 35:100-35:101:02, 35:103-35:113, 35:115-35:116, 35:120-35:126, 35:128, 35:130N-35:134N, 35:136-35:148, 35:150, 37:25, 44:02:01:01-44:14, 44:16-44:17, 44:19N, 44:21-44:30, 44:32-44:40, 44:42-44:46, 44:48-44:52N, 44:55-44:61N, 44:63-44:64:02, 44:66-44:75, 44:78, 44:80-44:81, 44:83-44:98, 44:101-44:105, 44:107-44:115, 48:02:01-48:02:02, 51:42, 53:01:01-53:05, 53:07, 53:09-53:13, 53:15-53:18, 53:20-53:24, 56:09, 56:11, 58:01:01-58:01:02, 58:01:04-58:01:08, 58:04-58:05, 58:09-58:13, 58:15, 58:17N, 58:21-58:24, 58:29-58:31N, 83:01, C*03:102
												*08:60, 13:21, 35:09:01-35:09:02, 35:18, 35:88, 37:12, 40:04, 40:64, 40:68, 40:99, 40:129, 40:137, 42:13, C*15:24
												*13:13, 35:02:01-35:02:04, 35:04:01-35:04:03, 35:12:01-35:12:02, 35:81, 35:83, 35:95, 35:129N, 35:149, 44:62, 44:77, 44:82, 53:19, 56:12, 58:28
												*13:20, 14:10, 15:02:01-15:02:05, 15:13, 15:21, 15:25:01-15:25:03, 15:36, 15:44, 15:62, 15:77, 15:80, 15:85, 15:89, 15:106, 15:112, 15:121, 15:139, 15:144, 15:154, 15:165, 15:170, 15:194, 15:204, 35:11:01-35:11:02, 35:14:01-35:14:02, 35:21, 35:96, 44:76, 44:79, 53:06, 53:08:01-53:08:02, 58:19
		15										*14:01:01-14:04, 14:07N, 14:09, 14:11-14:12, 14:14-14:19, 58:06
		15										*18:44, 40:150, 58:02, 58:07, 58:25, C*01:32, C*06:20
												*35:06, 35:59, 37:01:01-37:01:07, 37:03N-37:06, 37:08, 37:10-37:11, 37:14-37:24, 38:20, 39:42
								21				*35:127
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

Length of spec.	150	100	220	100	220	95	105	90	170	210	165	90
PCR product(s)						190		250			215	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*37:13	1			w					9			
*40:28, 51:04, 51:46, 51:56	1			4					9			
*40:30, 40:34			3	4								12
*48:17, C*05:10				w								
*55:14	1	2	3						9		11	
*58:14	1	2	3								11	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

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

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-B\*57 subtyping.

In addition, wells number 4, 11, 13 and 22 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

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

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

Lot No.: **85M**

Lot-specific information

www.olerup-ssp.com

90	135	110	85	140	165	240	90	110	95	75	170	Length of spec.
	195	145	160	210			240	150		100		PCR product(s)
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
												*37:13
												*40:28, 51:04, 51:46, 51:56
				17		19						*40:30, 40:34
												*48:17, C*05:10
				17			20					*55:14
												*58:14
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

<sup>4</sup>Primer mix 6: Specific PCR fragment of 95 bp in the B\*57:04 and 57:32 alleles. Specific PCR fragment of 190 bp in the B\*57:06 and 57:30 alleles.

Primer mix 8: Specific PCR fragment of 90 bp in the B\*57:16 allele. Specific PCR fragment of 250 bp in the B\*57:07 allele.

Primer mix 11: Specific PCR fragment of 165 bp in the B\*57:14 and in the B\*55:14 and 58:14 alleles. Specific PCR fragment of 215 bp in the B\*57:09 and 57:24 alleles.

Primer mix 14: Specific PCR fragment of 135 bp in the B\*57:17 allele. Specific PCR fragment of 195 bp in the B\*57:10 allele.

Primer mix 15: Specific PCR fragment of 110 bp in the B\*57:29 and 57:33 and the B\*40:150 alleles. Specific PCR fragment of 145 bp in the B\*57:11 and the B\*14:01:01-14:04, 14:07N, 14:09, 14:11-14:12, 14:14-14:19, 18:44, 58:02, 58:06-58:07 and 58:25 and in the C\*01:32 and C\*06:20 alleles.

Primer mix 16: Specific PCR fragment of 85 bp in the B\*57:12 allele. Specific PCR fragment of 160 bp in the B\*57:18 allele.

Primer mix 17: Specific PCR fragment of 140 bp in the B\*57:31 and the B\*40:30 and 40:34 alleles. Specific PCR fragment of 210 bp in the B\*57:22 and 57:27 and the B\*55:14 alleles. Specific PCR fragment of 140 and 210 bp in the B\*57:13 allele.

Primer mix 20: Specific PCR fragment of 90 bp in the B\*57:20 allele. Specific PCR fragment of 240 bp in the B\*57:26 and the B\*55:14 alleles.

Primer mix 21: Specific PCR fragment of 110 bp in the B\*57:33 allele. Specific PCR fragment of 150 bp in the B\*57:21 and the B\*35:127 alleles.

Primer mix 23: Specific PCR fragment of 75 bp in the B\*57:35 allele. Specific PCR fragment of 100 bp in the B\*57:36 allele.

‘w’, might be weakly amplified.

CELL LINE VALIDATION SHEET																			
HLA-B*57 SSP subtyping kit																			
			Prod. No.:	Well															
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	IHWC cell line	B*		200967301	200967302	200967303	200967304	200967305	201183506	200967307	201183508	200967309	200967310	200967311	200967312	201192113	200967314	201183515	200967316
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	9004 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	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

<b>CELL LINE VALIDATION SHEET</b>													
<b>HLA-B*57 SSP subtyping kit</b>													
			Prod. No.:	Well									
				17	18	19	20	21	22	23	24		
				201183517	200967318	200967319	200967320	201192121	201183522	201183523	201183524		
	<b>IHWC cell line</b>	<b>B*</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	9004 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	-	-	-	-	-	-	-	-	-	-

## CERTIFICATE OF ANALYSIS

### Olerup SSP® HLA-B\*57 SSP

Product number: 101.567-12 – including *Taq* polymerase  
Lot number: 85M  
Expiry date: 2014-May-01  
Number of tests: 12  
Number of wells per test: 24

#### Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2009-673-01	9	2009-673-09	17	2011-835-17
2	2009-673-02	10	2009-673-10	18	2009-673-18
3	2009-673-03	11	2009-673-11	19	2009-673-19
4	2009-673-04	12	2009-673-12	20	2009-673-20
5	2009-673-05	13	2011-921-13	21	2011-921-21
6	2011-835-06	14	2009-673-14	22	2011-835-22
7	2009-673-07	15	2011-835-15	23	2011-835-23
8	2011-835-08	16	2009-673-16	24	2011-835-24

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

No DNAs carrying the alleles to be amplified by primer solutions 6, 7, 8, 11, 14 and 16 to 24 were available. The specificities of the primers in primer solutions 6, 8, 11, 14, 16, 17, 19 and 20 were tested by separately adding additional 5'-primers, respectively additional 3'-primers. In primer solutions 7 and 23 it was only possible to test the 5'-primer, the 3'-primer was not possible to test. In primer solution 18, 21, 22 and 24 it was only possible to test the 3'-primer, the 5'-primer was not possible to test.

In primer solutions 2, 6, 16, 17 and 20 one of the 3'-primers was not possible to test, and in primer solutions 8, 14 and 15 one or two of the 5'-primers were not possible to test. One additional 3'primer in primer solution 15 was tested by separately adding one 5'-primer.

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

**Date of approval:** 2012-January-19

**Approved by:**

#### Production Quality Control



## Declaration of Conformity

**Product name:** *Olerup* SSP® HLA-B\*57  
**Product number:** 101.567-12  
**Lot number:** 85M

**Intended use:** HLA-B\*57 high resolution histocompatibility testing

**Manufacturer:** *Olerup* SSP AB  
Franzengatan 5  
SE-112 51 Stockholm, 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 9001:2008 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, Franzengatan 5, SE-112 51 Stockholm, Sweden.

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

Stockholm, Sweden  
2012-January-19

Ann-Cathrin Jareman  
Head of QA and Regulatory Affairs





Lot No.: **85M**

Lot-specific information

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