

Olerup SSP[®] HLA-B*08

Product number:	101.513-24/04 – including <i>Taq</i> pol.
Lot number:	07K
Expiry date:	2012-June-01
Number of tests:	24 tests – Product No. 101.513-24 4 tests – Product No. 101.513-04
Number of wells per test:	40
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. 07K.

CHANGES COMPARED TO THE PREVIOUS *OLERUP SSP*[®] HLA-B*08 LOT

The HLA-B*08 specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup SSP*[®] HLA-B*08 lot was made (Lot No. 51F).

Eight wells has been added to the B*08 kit,
wells **33** to **40**.

The amplification patterns for some rare HLA-B*08 alleles
only differ by the length of the specific PCR products.

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

Well	5'-primer	3'-primer	rationale
7	-	Added	Primer added for the B*08:52 allele.
10	Added	-	Primer added for the B*08:40 allele.
13	Added	-	Primer added for the B*08:49 and B*08:60 alleles.
14	Added	-	Primer added for the B*08:43 allele.
15	Exchanged	Exchanged	New primer pair for the B*08:50 allele.
18	-	Added	Primer added for the B*08:39 allele.

19	-	Added	Primer added for the B*08:44 allele.
26	Modified	-	Modified 5'-primer to decrease tendencies of unspecific amplification.
32	Exchanged	Exchanged	Exchanged primer pair for improved specificity of amplification.
33	New	New	New primer pairs for the B*08:42 and B*08:55 alleles.
34	New	New	New primer pairs for the B*08:45 and B*08:59 alleles.
35	New	New	New primer pairs for the B*08:51 and B*08:57 alleles.
36	New	New	New primer pair for the B*08:53 allele.
37	New	New	New primer pairs for the B*08:41 and B*08:48 alleles.
38	New	New	New primer pairs for the B*08:58 and B*08:61 alleles.
39	New	New	New primer pair for the B*08:46 allele.
40	New	New	New primer pair for the B*08:56 allele.

Changes in revision R01 compared to R00:

1. The B*08:17 and 08:47 and the B*15:57, 15:135, 35:27, 35:56, 44:75, 55:12 and 78:06 and the C*05:30 alleles are weakly amplified by primer mix 23. This has been corrected in the Specificity and Interpretation Tables.

Change in revision R02 compared to R01:

1. Primer mix 3 amplifies the B*08:17 and 08:47 alleles. This has been corrected in the specificity and amplification tables.

PRODUCT DESCRIPTION

HLA-B*08 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the B*08:01 to B*08:61 alleles.

PLATE LAYOUT

Each test consists of 40 PCR reactions in a 48 well cut PCR plate. Wells 41 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
empty	empty	empty	empty	empty	empty	empty	empty

The 48 well cut PCR plate is marked with ‘HLA-B*08’ in silver/gray ink. Well No. 1 is marked with the Lot No. ‘07K’.

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 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*08 SSP subtypings will be influenced by several B*07 alleles, two B*13, the B*14:11 allele, several B*15, the B*18:25 allele, the B*27:32 allele, most B*35, the B*37:09 allele, three B*38, thirteen B*39, eight B*40, most B*41, the B*42, six B*44, the B*45:09, four B*48, most B*51, three B*52, most B*53, three B*54, five B*55, the B*56:16 allele, five B*57, the B*58:18 allele, the B*59, the B*67:02 allele, the B*73:01 allele, most B*78 and the B*83:01 allele when present on the other haplotype. In addition, the C*05:30 allele will be amplified by the primer mix 23 and the C*07:68 allele will be amplified by primer mix 25.

UNIQUELY IDENTIFIED ALLELES

All the HLA-B*08 alleles, i.e. **B*08:01 to B*08:61**, recognized by the HLA Nomenclature Committee in April 2010¹ will give rise to unique amplification patterns by the primers in the HLA-B*08 subtyping kit.

The HLA-B*08 subtyping primer set can not distinguish the B*08:01:01 to B*08:01:10 or the B*08:12:01 to B*08:12:03 alleles.

The B*08:21 and 08:47 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 23.

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The B*08:41 and 08:48 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 37.

The B*08:45 and 08:59 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 34.

The B*08:51 and 08:57 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 35.

The B*08:58 and 08:61 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 38.

¹HLA-B alleles listed on the IMGT/HLA web page 2010-April-01, release 3.0.0, www.ebi.ac.uk/imgt/hla.

RESOLUTION IN HOMO- AND HETEROZYGOTES

The 61 HLA-B*08 alleles will generate 57 different amplification patterns, as some alleles have patterns that only differ in size of specific PCR product. These can be combined in 1653 homozygous and heterozygous combinations. 803 of these genotypes do not give rise to unique amplification patterns. The different lengths of the specific PCR products generated by primer mixes 7, 10, 13, 14, 18, 19, 20, 23, 27, 29, 33, 34, 35, 37 and 38 were not considered in these calculations.

+++++--- -+----- -+----- -+----- -+-----	08:02,08:04 = 08:02,08:24
+++++--- -+----- -+----- -+----- -+-----	08:02,08:09 = 08:02,08:27
+++++--- -+----- -+----- -+----- -+-----	08:02,08:11 = 08:02,08:60
+++++--- -+----- -+----- -+----- -+-----	08:02,08:12 = 08:02,08:43
+++++--- -+----- -+----- -+----- -+-----	08:02,08:28 = 08:02,08:35
+++++--- -+----- -+----- -+----- -+-----	08:03,08:54 = 08:05,08:54
+++++--- -+----- -+----- -+----- -+-----	08:03,08:04 = 08:03,08:24
+++++--- -+----- -+----- -+----- -+-----	08:09,08:54 = 08:27,08:54
+++++--- -+----- -+----- -+----- -+-----	08:11,08:54 = 08:54,08:60
+++++--- -+----- -+----- -+----- -+-----	08:12,08:54 = 08:43,08:54
+++++--- -+----- -+----- -+----- -+-----	08:15,08:54 = 08:39,08:54
+++++--- -+----- -+----- -+----- -+-----	08:17,08:23 = 08:21,08:54 = 08:47,08:54
+++++--- -+----- -+----- -+----- -+-----	08:28,08:54 = 08:35,08:54
+++++--- -+----- -+----- -+----- -+-----	08:22,08:54 = 08:30N,08:54
+++++--- -+----- -+----- -+----- -+-----	08:01,08:54 = 08:23,08:54 = 08:24,08:54 = 08:38,08:54 = 08:52,08:54
+++++--- -+----- -+----- -+----- -+-----	08:04,08:23 = 08:04,08:52 = 08:23,08:24 = 08:24,08:52
+++++--- -+----- -+----- -+----- -+-----	08:03,08:09 = 08:03,08:27
+++++--- -+----- -+----- -+----- -+-----	08:03,08:11 = 08:03,08:60
+++++--- -+----- -+----- -+----- -+-----	08:03,08:12 = 08:03,08:43
+++++--- -+----- -+----- -+----- -+-----	08:03,08:28 = 08:03,08:35
+++++--- -+----- -+----- -+----- -+-----	08:03,08:32 = 08:03,08:36 = 08:23,08:36 = 08:36,08:52
+++++--- -+----- -+----- -+----- -+-----	08:01,08:03 = 08:03,08:05 = 08:03,08:23 = 08:05,08:23 = 08:05,08:52
+++++--- -+----- -+----- -+----- -+-----	08:23,08:40 = 08:40,08:52
+++++--- -+----- -+----- -+----- -+-----	08:06,08:23 = 08:06,08:52
+++++--- -+----- -+----- -+----- -+-----	08:20,08:23 = 08:20,08:52
+++++--- -+----- -+----- -+----- -+-----	08:23,08:37 = 08:37,08:52
+++++--- -+----- -+----- -+----- -+-----	08:07,08:23 = 08:07,08:52
+++++--- -+----- -+----- -+----- -+-----	08:08N,08:23 = 08:08N,08:52
+++++--- -+----- -+----- -+----- -+-----	08:09,08:23 = 08:09,08:52 = 08:23,08:27 = 08:27,08:52
+++++--- -+----- -+----- -+----- -+-----	08:10,08:23 = 08:10,08:52
+++++--- -+----- -+----- -+----- -+-----	08:23,08:49 = 08:49,08:52
+++++--- -+----- -+----- -+----- -+-----	08:11,08:23 = 08:11,08:52 = 08:23,08:60 = 08:52,08:60
+++++--- -+----- -+----- -+----- -+-----	08:16,08:23 = 08:16,08:52

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+++-----	-----++	-----+	-----+	-----	08:23,08:25 = 08:25,08:52
+++-----	-----++	-----	-----+	+-----	08:23,08:55 = 08:52,08:55
+++-----	-----++	-----	-----+	-----	08:13,08:23 = 08:13,08:52
+++-----	-----+	+-----	-----+	-----	08:14,08:23 = 08:14,08:52
+++-----	-----+	-+-----	-----+	-----	08:15,08:23 = 08:23,08:39 = 08:39,08:52
+++-----	-----+	--+-----	-----+	-----	08:23,08:44 = 08:44,08:52
+++-----	-----+	---+-----	---+-----	-----	08:22,08:23 = 08:22,08:52
+++-----	-----+	---+-----	-----+	-----	08:23,08:38 = 08:38,08:52
+++-----	-----+	-----+	-----+	-----	08:18,08:23 = 08:18,08:52
+++-----	-----+	-----+	-----+	-----	08:19N,08:23 = 08:19N,08:52
+++-----	-----+	-----+	-----+	-----	08:21,08:23 = 08:21,08:52 = 08:23,08:47
+++-----	-----+	-----	+-----+	-----	08:23,08:28 = 08:23,08:35 = 08:28,08:52 = 08:35,08:52
+++-----	-----+	-----	-+-----+	-----	08:23,08:29 = 08:29,08:52
+++-----	-----+	-----	--+-----+	-----	08:23,08:30N = 08:30N,08:52
+++-----	-----+	-----	---+-----+	-----	08:23,08:31 = 08:31,08:52
+++-----	-----+	-----	---+-----+	-----	08:23,08:32 = 08:32,08:52
+++-----	-----+	-----	---+-----+	-----	08:23,08:33 = 08:33,08:52
+++-----	-----+	-----	-----++	-----	08:23,08:34 = 08:34,08:52
+++-----	-----+	-----	-----+	+-----	08:23,08:42 = 08:42,08:52
+++-----	-----+	-----	-----+	-+-----	08:23,08:45 = 08:45,08:52
+++-----	-----+	-----	-----+	--+-----	08:23,08:51 = 08:51,08:52
+++-----	-----+	-----	-----+	---+-----	08:23,08:53 = 08:52,08:53
+++-----	-----+	-----	-----+	-----+---	08:23,08:41 = 08:41,08:52
+++-----	-----+	-----	-----+	-----+---	08:23,08:58 = 08:52,08:58
+++-----	-----+	-----	-----+	-----+	08:23,08:46 = 08:46,08:52
+++-----	-----+	-----	-----+	-----+	08:23,08:56 = 08:52,08:56
+++-----	-----+	-----	-----+	-----	08:01,08:23 = 08:01,08:52 = 08:23,08:23 = 08:23,08:52
+++-----	-----+	-----	---+-----+	-----	08:04,08:36 = 08:24,08:36
+++-----	-----+	-----	-----+	-----	08:04,08:05 = 08:05,08:24
+++-----	---+-----+	-----	-----+	-----	08:04,08:40 = 08:24,08:40
+++-----	-----+	---+-----+	-----+	---+-----	08:06,08:17 = 08:17,08:20
+++-----	-----+	-----+	-----+	---+-----	08:04,08:06 = 08:06,08:24
+++-----	-----+	-----	-----+	---+-----	08:04,08:20 = 08:20,08:24
+++-----	+-----+	-----	+-----+	-----	08:04,08:37 = 08:24,08:37
+++-----	+-----+	-----	-----+	-----	08:04,08:07 = 08:07,08:24
+++-----	-+-----+	-----	-----+	-----	08:04,08:08N = 08:08N,08:24
+++-----	---+-----+	---+-----+	-----+	-----	08:09,08:17 = 08:17,08:27
+++-----	---+-----+	-----	-----+	-----	08:04,08:09 = 08:04,08:27 = 08:09,08:24 = 08:24,08:27
+++-----	---+-----+	-----	-----+	-----	08:04,08:10 = 08:10,08:24
+++-----	-----++	-----	-----+	-----	08:04,08:49 = 08:24,08:49
+++-----	---+-----+	---+-----+	-----+	-----	08:11,08:17 = 08:17,08:60
+++-----	---+-----+	-----	-----+	-----	08:04,08:11 = 08:04,08:60 = 08:11,08:24 = 08:24,08:60
+++-----	-----++	--+-----	-----+	-----	08:04,08:16 = 08:16,08:24
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+++-----	-----++	-----	-----+	-----	08:04,08:12 = 08:04,08:43 = 08:12,08:24 = 08:24,08:43
+++-----	-----++	---+-----+	-----+	-----	08:13,08:17 = 08:17,08:25
+++-----	-----++	-----	-----+	-----	08:04,08:25 = 08:24,08:25
+++-----	-----++	-----	-----+	+-----	08:04,08:55 = 08:24,08:55
+++-----	-----++	-----	-----+	-----	08:04,08:13 = 08:13,08:24
+++-----	-----+	+-----	-----+	-----	08:04,08:14 = 08:14,08:24
+++-----	-----+	-+-----	-----+	-----	08:04,08:15 = 08:04,08:39 = 08:15,08:24 = 08:24,08:39
+++-----	-----+	--+-----	-----+	-----	08:04,08:44 = 08:24,08:44
+++-----	-----+	---+-----+	+-----+	-----	08:17,08:28 = 08:17,08:35
+++-----	-----+	---+-----+	--+-----+	-----	08:17,08:22 = 08:17,08:30N
+++-----	-----+	---+-----+	-----+	-----	08:01,08:17 = 08:17,08:21 = 08:17,08:24 = 08:17,08:38
+++-----	-----+	---+-----	--+-----+	-----	08:04,08:22 = 08:22,08:24

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+++++---	-----+	---+----	-----+	-----	08:04,08:18 = 08:18,08:24
+++++---	-----+	---+----	-----+	-----	08:04,08:19N = 08:19N,08:24
+++++---	-----+	---+----	-----+	-----	08:04,08:21 = 08:04,08:47 = 08:21,08:24 = 08:24,08:47
+++++---	-----+	-----	+-----+	-----	08:04,08:28 = 08:04,08:35 = 08:24,08:28 = 08:24,08:35
+++++---	-----+	-----	+-----+	-----	08:04,08:29 = 08:24,08:29
+++++---	-----+	-----	---+----	-----	08:04,08:30N = 08:24,08:30N
+++++---	-----+	-----	---+----	-----	08:04,08:31 = 08:24,08:31
+++++---	-----+	-----	---+----	-----	08:04,08:32 = 08:24,08:32
+++++---	-----+	-----	-----+	-----	08:04,08:33 = 08:24,08:33
+++++---	-----+	-----	-----+	-----	08:04,08:34 = 08:24,08:34
+++++---	-----+	-----	-----+	+-----	08:04,08:42 = 08:24,08:42
+++++---	-----+	-----	-----+	+-----	08:04,08:45 = 08:24,08:45
+++++---	-----+	-----	-----+	---+----	08:04,08:51 = 08:24,08:51
+++++---	-----+	-----	-----+	---+----	08:04,08:53 = 08:24,08:53
+++++---	-----+	-----	-----+	-----+	08:04,08:41 = 08:24,08:41
+++++---	-----+	-----	-----+	-----+	08:04,08:58 = 08:24,08:58
+++++---	-----+	-----	-----+	-----+	08:04,08:46 = 08:24,08:46
+++++---	-----+	-----	-----+	-----+	08:04,08:56 = 08:24,08:56
+++++---	-----+	-----	-----+	-----	08:01,08:04 = 08:01,08:24 = 08:04,08:24 = 08:24,08:24
+++++---	---+----	-----	---+----	-----	08:09,08:36 = 08:27,08:36
+++++---	---+----	-----	-----+	-----	08:05,08:09 = 08:05,08:27
+++++---	---+----	-----	---+----	-----	08:11,08:36 = 08:36,08:60
+++++---	---+----	-----	-----+	-----	08:05,08:11 = 08:05,08:60
+++++---	-----+	-----	---+----	-----	08:12,08:36 = 08:36,08:43
+++++---	-----+	-----	-----+	-----	08:05,08:12 = 08:05,08:43
+++++---	-----+	---+----	---+----	-----	08:15,08:36 = 08:36,08:39
+++++---	-----+	---+----	-----+	-----	08:05,08:15 = 08:05,08:39
+++++---	-----+	-----+	---+----	-----	08:21,08:36 = 08:36,08:47
+++++---	-----+	-----+	-----+	-----	08:05,08:21 = 08:05,08:47
+++++---	-----+	-----	+---+---	-----	08:28,08:36 = 08:35,08:36
+++++---	-----+	-----	+---+---	-----	08:05,08:28 = 08:05,08:35
+++++---	-----+	-----	---+----	-----	08:01,08:36 = 08:05,08:32 = 08:05,08:36 = 08:32,08:36 = 08:36,08:36
+++++---	-----+	-----	-----+	-----	08:01,08:05 = 08:05,08:05
+++++---	+-----+	+-----	-----+	-----	08:15,08:40 = 08:39,08:40
+++++---	+-----+	-----+	-----+	-----	08:21,08:40 = 08:40,08:47
+++++---	+-----+	-----	+-----+	-----	08:28,08:40 = 08:35,08:40
+++++---	+-----+	-----	-----+	---+----	08:08N,08:20 = 08:40,08:53
+++++---	+-----+	-----	-----+	-----	08:01,08:40 = 08:08N,08:40
+++++---	-----+	---+----	-----+	---+----	08:06,08:15 = 08:06,08:39
+++++---	-----+	---+----	-----+	---+----	08:15,08:20 = 08:20,08:39
+++++---	-----+	-----+	+-----+	---+----	08:06,08:28 = 08:06,08:35
+++++---	-----+	-----+	-----+	---+----	08:01,08:06 = 08:06,08:21 = 08:06,08:47 = 08:06,08:53 = 08:20,08:21 = 08:20,08:47
+++++---	-----+	-----	+-----+	---+----	08:20,08:28 = 08:20,08:35
+++++---	-----+	-----	-----+	---+----	08:01,08:20 = 08:20,08:53
+++++---	+-----+	-----	+-----+	-----	08:09,08:37 = 08:27,08:37
+++++---	+-----+	-----	-----+	-----	08:07,08:09 = 08:07,08:27
+++++---	+-----+	-----	+-----+	-----	08:11,08:37 = 08:37,08:60
+++++---	+-----+	-----	-----+	-----	08:07,08:11 = 08:07,08:60
+++++---	+-----+	-----	+-----+	-----	08:12,08:37 = 08:37,08:43
+++++---	+-----+	-----	-----+	-----	08:07,08:12 = 08:07,08:43
+++++---	+-----+	---+----	+-----+	-----	08:15,08:37 = 08:37,08:39
+++++---	+-----+	---+----	-----+	-----	08:07,08:15 = 08:07,08:39
+++++---	+-----+	-----+	+-----+	-----	08:21,08:37 = 08:37,08:47
+++++---	+-----+	-----+	-----+	-----	08:07,08:21 = 08:07,08:47
+++++---	+-----+	-----	+-----+	-----	08:01,08:37 = 08:07,08:35 = 08:35,08:37
+++++---	+-----+	-----	+-----	-----	08:07,08:28 = 08:07,08:37 = 08:28,08:37 = 08:37,08:37
+++++---	---+----	-----	-----+	-----	08:08N,08:09 = 08:08N,08:27

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+++-----	-+-----+	-----	-----+	-----	08:08N,08:12 = 08:08N,08:43
+++-----	-+-----+	-+-----	-----+	-----	08:08N,08:15 = 08:08N,08:39
+++-----	-+-----+	-----+	-----+	-----	08:08N,08:21 = 08:08N,08:47
+++-----	-+-----+	-----	+-----+	-----	08:08N,08:28 = 08:08N,08:35
+++-----	-+-----+	-----	-----+	-----	08:01,08:08N = 08:08N,08:08N
+++-----	-+-----+	-----	-----+	-----	08:09,08:10 = 08:10,08:27
+++-----	-+-----+	-----	-----+	-----	08:09,08:11 = 08:11,08:27 = 08:27,08:60
+++-----	-+-----+	-----	-----+	-----	08:09,08:43 = 08:12,08:27 = 08:27,08:43
+++-----	-+-----+	+-----	-----+	-----	08:09,08:14 = 08:14,08:27
+++-----	-+-----+	-+-----	-----+	-----	08:09,08:15 = 08:09,08:39 = 08:15,08:27 = 08:27,08:39
+++-----	-+-----+	-+-----	-----+	-----	08:09,08:44 = 08:27,08:44
+++-----	-+-----+	-+-----	-+-----	-----	08:09,08:22 = 08:22,08:27
+++-----	-+-----+	-+-----	-----+	-----	08:09,08:38 = 08:27,08:38
+++-----	-+-----+	-+-----	-----+	-----	08:09,08:18 = 08:18,08:27
+++-----	-+-----+	-+-----	-----+	-----	08:09,08:19N = 08:19N,08:27
+++-----	-+-----+	-+-----	-----+	-----	08:09,08:21 = 08:09,08:47 = 08:21,08:27 = 08:27,08:47
+++-----	-+-----+	-----+	-----+	-----+	08:09,08:26 = 08:26,08:27
+++-----	-+-----+	-----+	-----+	-----	08:09,08:50 = 08:27,08:50
+++-----	-+-----+	-----	+-----+	-----	08:09,08:28 = 08:09,08:35 = 08:27,08:28 = 08:27,08:35
+++-----	-+-----+	-----	-+-----+	-----	08:09,08:29 = 08:27,08:29
+++-----	-+-----+	-----	-+-----+	-----	08:09,08:30N = 08:27,08:30N
+++-----	-+-----+	-----	-+-----+	-----	08:09,08:31 = 08:27,08:31
+++-----	-+-----+	-----	-+-----+	-----	08:09,08:32 = 08:27,08:32
+++-----	-+-----+	-----	-+-----+	-----	08:09,08:33 = 08:27,08:33
+++-----	-+-----+	-----	-+-----+	-----	08:09,08:34 = 08:27,08:34
+++-----	-+-----+	-----	-+-----+	+-----	08:09,08:42 = 08:27,08:42
+++-----	-+-----+	-----	-+-----+	+-----	08:09,08:45 = 08:27,08:45
+++-----	-+-----+	-----	-+-----+	-+-----	08:09,08:51 = 08:27,08:51
+++-----	-+-----+	-----	-+-----+	-+-----	08:09,08:53 = 08:27,08:53
+++-----	-+-----+	-----	-+-----+	-+-----	08:09,08:41 = 08:27,08:41
+++-----	-+-----+	-----	-+-----+	-+-----	08:09,08:58 = 08:27,08:58
+++-----	-+-----+	-----	-+-----+	-+-----	08:09,08:46 = 08:27,08:46
+++-----	-+-----+	-----	-+-----+	-+-----	08:09,08:56 = 08:27,08:56
+++-----	-+-----+	-----	-+-----+	-----	08:01,08:09 = 08:01,08:27 = 08:09,08:27 = 08:27,08:27
+++-----	-+-----+	-----	-+-----+	-----	08:10,08:11 = 08:10,08:60
+++-----	-+-----+	-----	-+-----+	-----	08:10,08:12 = 08:10,08:43
+++-----	-+-----+	-+-----	-----+	-----	08:10,08:15 = 08:10,08:39
+++-----	-+-----+	-----+	-----+	-----	08:10,08:21 = 08:10,08:47
+++-----	-+-----+	-----	+-----+	-----	08:10,08:28 = 08:10,08:35
+++-----	-+-----+	-----	-----+	-----	08:01,08:10 = 08:10,08:10
+++-----	-+-----+	-+-----	-----+	-----	08:15,08:49 = 08:39,08:49
+++-----	-+-----+	-+-----	-----+	-----	08:11,08:16 = 08:44,08:49
+++-----	-+-----+	-+-----	-----+	-----	08:21,08:49 = 08:47,08:49
+++-----	-+-----+	-+-----	-----+	-----	08:01,08:49 = 08:11,08:12 = 08:11,08:43 = 08:11,08:49 = 08:43,08:49 = 08:43,08:60
+++-----	-+-----+	+-----	-----+	-----	08:11,08:14 = 08:14,08:60
+++-----	-+-----+	-+-----	-----+	-----	08:11,08:15 = 08:11,08:39 = 08:15,08:60 = 08:39,08:60
+++-----	-+-----+	-+-----	-----+	-----	08:11,08:44 = 08:44,08:60
+++-----	-+-----+	-+-----	-+-----	-----	08:11,08:22 = 08:22,08:60
+++-----	-+-----+	-+-----	-----+	-----	08:11,08:38 = 08:38,08:60
+++-----	-+-----+	-+-----	-----+	-----	08:11,08:18 = 08:18,08:60
+++-----	-+-----+	-+-----	-----+	-----	08:11,08:19N = 08:19N,08:60
+++-----	-+-----+	-+-----	-----+	-----	08:11,08:21 = 08:11,08:47 = 08:21,08:60 = 08:47,08:60
+++-----	-+-----+	-----+	-----+	-----+	08:11,08:26 = 08:26,08:60
+++-----	-+-----+	-----+	-----+	-----	08:11,08:50 = 08:50,08:60
+++-----	-+-----+	-----	+-----+	-----	08:11,08:28 = 08:11,08:35 = 08:28,08:60 = 08:35,08:60

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+++-----	-----++-	-----	-+-----+	-----	08:11,08:29 = 08:29,08:60
+++-----	-----++-	-----	-+-----+	-----	08:11,08:30N = 08:30N,08:60
+++-----	-----++-	-----	-+-----+	-----	08:11,08:31 = 08:31,08:60
+++-----	-----++-	-----	-+-----+	-----	08:11,08:32 = 08:32,08:60
+++-----	-----++-	-----	-+-----+	-----	08:11,08:33 = 08:33,08:60
+++-----	-----++-	-----	-+-----+	-----	08:11,08:34 = 08:34,08:60
+++-----	-----++-	-----	-+-----+	-----	08:11,08:42 = 08:42,08:60
+++-----	-----++-	-----	-+-----+	-----	08:11,08:45 = 08:45,08:60
+++-----	-----++-	-----	-+-----+	-----	08:11,08:51 = 08:51,08:60
+++-----	-----++-	-----	-+-----+	-----	08:11,08:53 = 08:53,08:60
+++-----	-----++-	-----	-+-----+	-----	08:11,08:41 = 08:41,08:60
+++-----	-----++-	-----	-+-----+	-----	08:11,08:58 = 08:58,08:60
+++-----	-----++-	-----	-+-----+	-----	08:11,08:46 = 08:46,08:60
+++-----	-----++-	-----	-+-----+	-----	08:11,08:56 = 08:56,08:60
+++-----	-----++-	-----	-+-----+	-----	08:01,08:11 = 08:01,08:60 = 08:11,08:11
= 08:11,08:60					
+++-----	-----++-	+-----	-----+	-----	08:12,08:14 = 08:14,08:43
+++-----	-----++-	-+-----	-----+	-----	08:15,08:16 = 08:16,08:39
+++-----	-----++-	-+-----	-----+	-----	08:12,08:15 = 08:12,08:39 = 08:15,08:43
					= 08:39,08:43
+++-----	-----++-	-+-----	-----+	-----	08:16,08:21 = 08:16,08:47
+++-----	-----++-	-+-----	+-----+	-----	08:16,08:28 = 08:16,08:35
+++-----	-----++-	-+-----	-----+	-----	08:01,08:16 = 08:12,08:44 = 08:16,08:43
					= 08:16,08:44 = 08:43,08:44
+++-----	-----++-	-+-----	-+-----+	-----	08:12,08:22 = 08:22,08:43
+++-----	-----++-	-+-----	-----+	-----	08:12,08:38 = 08:38,08:43
+++-----	-----++-	-+-----	-----+	-----	08:12,08:18 = 08:18,08:43
+++-----	-----++-	-+-----	-----+	-----	08:12,08:19N = 08:19N,08:43
+++-----	-----++-	-+-----	-----+	-----	08:12,08:21 = 08:12,08:47 = 08:21,08:43
					= 08:43,08:47
+++-----	-----++-	-+-----	-----+	-----	08:12,08:26 = 08:26,08:43
+++-----	-----++-	-+-----	-----+	-----	08:12,08:50 = 08:43,08:50
+++-----	-----++-	-+-----	+-----+	-----	08:12,08:28 = 08:12,08:35 = 08:28,08:43
					= 08:35,08:43
+++-----	-----++-	-+-----	-+-----+	-----	08:12,08:29 = 08:29,08:43
+++-----	-----++-	-+-----	-+-----+	-----	08:12,08:30N = 08:30N,08:43
+++-----	-----++-	-+-----	-+-----+	-----	08:12,08:31 = 08:31,08:43
+++-----	-----++-	-+-----	-+-----+	-----	08:12,08:32 = 08:32,08:43
+++-----	-----++-	-+-----	-+-----+	-----	08:12,08:33 = 08:33,08:43
+++-----	-----++-	-+-----	-+-----+	-----	08:12,08:34 = 08:34,08:43
+++-----	-----++-	-+-----	-+-----+	-----	08:12,08:42 = 08:42,08:43
+++-----	-----++-	-+-----	-+-----+	-----	08:12,08:45 = 08:43,08:45
+++-----	-----++-	-+-----	-+-----+	-----	08:12,08:51 = 08:43,08:51
+++-----	-----++-	-+-----	-+-----+	-----	08:12,08:53 = 08:43,08:53
+++-----	-----++-	-+-----	-+-----+	-----	08:12,08:41 = 08:41,08:43
+++-----	-----++-	-+-----	-+-----+	-----	08:12,08:58 = 08:43,08:58
+++-----	-----++-	-+-----	-+-----+	-----	08:12,08:46 = 08:43,08:46
+++-----	-----++-	-+-----	-+-----+	-----	08:12,08:56 = 08:43,08:56
+++-----	-----++-	-+-----	-+-----+	-----	08:01,08:12 = 08:01,08:43 = 08:12,08:43
					= 08:43,08:43
+++-----	-----++-	-+-----	-+-----+	-----	08:15,08:25 = 08:25,08:39
+++-----	-----++-	-+-----	-+-----+	-----	08:15,08:55 = 08:39,08:55
+++-----	-----++-	-+-----	-+-----+	-----	08:13,08:15 = 08:13,08:39
+++-----	-----++-	-+-----	-+-----+	-----	08:25,08:28 = 08:25,08:35
+++-----	-----++-	-+-----	-+-----+	-----	08:21,08:55 = 08:25,08:42 = 08:47,08:55
+++-----	-----++-	-+-----	-+-----+	-----	08:01,08:25 = 08:13,08:21 = 08:13,08:47
					= 08:21,08:25 = 08:25,08:47
+++-----	-----++-	-+-----	-+-----+	-----	08:28,08:55 = 08:35,08:55
+++-----	-----++-	-+-----	-+-----+	-----	08:13,08:28 = 08:13,08:35
+++-----	-----++-	-+-----	-+-----+	-----	08:01,08:55 = 08:13,08:42 = 08:42,08:55
+++-----	-----++-	-+-----	-+-----+	-----	08:14,08:15 = 08:14,08:39
+++-----	-----++-	-+-----	-+-----+	-----	08:14,08:21 = 08:14,08:47
+++-----	-----++-	-+-----	-+-----+	-----	08:15,08:44 = 08:39,08:44
+++-----	-----++-	-+-----	-+-----+	-----	08:15,08:22 = 08:22,08:39
+++-----	-----++-	-+-----	-+-----+	-----	08:15,08:38 = 08:38,08:39

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+++-----	-----+	-+-----	-----+	-----	08:15,08:18 = 08:18,08:39
+++-----	-----+	-+-----	-----+	-----	08:15,08:19N = 08:19N,08:39
+++-----	-----+	-+-----	-----+	-----	08:15,08:21 = 08:21,08:39 = 08:39,08:47
+++-----	-----+	-+-----	+-----+	-----	08:15,08:28 = 08:15,08:35 = 08:28,08:39 = 08:35,08:39
+++-----	-----+	-+-----	+-----+	-----	08:15,08:29 = 08:29,08:39
+++-----	-----+	-+-----	+-----+	-----	08:15,08:30N = 08:30N,08:39
+++-----	-----+	-+-----	+-----+	-----	08:15,08:31 = 08:31,08:39
+++-----	-----+	-+-----	+-----+	-----	08:15,08:32 = 08:32,08:39
+++-----	-----+	-+-----	+-----+	-----	08:15,08:33 = 08:33,08:39
+++-----	-----+	-+-----	+-----+	-----	08:15,08:34 = 08:34,08:39
+++-----	-----+	-+-----	+-----+	-----	08:15,08:42 = 08:39,08:42
+++-----	-----+	-+-----	+-----+	-----	08:15,08:45 = 08:39,08:45
+++-----	-----+	-+-----	+-----+	-----	08:15,08:51 = 08:39,08:51
+++-----	-----+	-+-----	+-----+	-----	08:15,08:53 = 08:39,08:53
+++-----	-----+	-+-----	+-----+	-----	08:15,08:41 = 08:39,08:41
+++-----	-----+	-+-----	+-----+	-----	08:15,08:58 = 08:39,08:58
+++-----	-----+	-+-----	+-----+	-----	08:15,08:46 = 08:39,08:46
+++-----	-----+	-+-----	+-----+	-----	08:15,08:56 = 08:39,08:56
+++-----	-----+	-+-----	+-----+	-----	08:01,08:15 = 08:01,08:39 = 08:15,08:39 = 08:39,08:39
+++-----	-----+	-+-----	+-----+	-----	08:21,08:44 = 08:44,08:47
+++-----	-----+	-+-----	+-----+	-----	08:28,08:44 = 08:35,08:44
+++-----	-----+	-+-----	+-----+	-----	08:01,08:44 = 08:44,08:44
+++-----	-----+	-+-----	+-----+	-----	08:21,08:22 = 08:22,08:47
+++-----	-----+	-+-----	+-----+	-----	08:21,08:38 = 08:38,08:47
+++-----	-----+	-+-----	+-----+	-----	08:22,08:28 = 08:22,08:35
+++-----	-----+	-+-----	+-----+	-----	08:28,08:38 = 08:35,08:38
+++-----	-----+	-+-----	+-----+	-----	08:01,08:22 = 08:22,08:22 = 08:22,08:30N = 08:22,08:38 = 08:30N,08:38
+++-----	-----+	-+-----	+-----+	-----	08:01,08:38 = 08:38,08:38
+++-----	-----+	-+-----	+-----+	-----	08:18,08:21 = 08:18,08:47
+++-----	-----+	-+-----	+-----+	-----	08:18,08:28 = 08:18,08:35
+++-----	-----+	-+-----	+-----+	-----	08:01,08:18 = 08:18,08:18
+++-----	-----+	-+-----	+-----+	-----	08:19N,08:21 = 08:19N,08:47
+++-----	-----+	-+-----	+-----+	-----	08:19N,08:28 = 08:19N,08:35
+++-----	-----+	-+-----	+-----+	-----	08:01,08:19N = 08:19N,08:19N
+++-----	-----+	-+-----	+-----+	-----	08:21,08:28 = 08:21,08:35 = 08:28,08:47 = 08:35,08:47
+++-----	-----+	-+-----	+-----+	-----	08:21,08:29 = 08:29,08:47
+++-----	-----+	-+-----	+-----+	-----	08:21,08:30N = 08:30N,08:47
+++-----	-----+	-+-----	+-----+	-----	08:21,08:31 = 08:31,08:47
+++-----	-----+	-+-----	+-----+	-----	08:21,08:32 = 08:32,08:47
+++-----	-----+	-+-----	+-----+	-----	08:21,08:33 = 08:33,08:47
+++-----	-----+	-+-----	+-----+	-----	08:21,08:34 = 08:34,08:47
+++-----	-----+	-+-----	+-----+	-----	08:21,08:42 = 08:42,08:47
+++-----	-----+	-+-----	+-----+	-----	08:21,08:45 = 08:45,08:47
+++-----	-----+	-+-----	+-----+	-----	08:21,08:51 = 08:47,08:51
+++-----	-----+	-+-----	+-----+	-----	08:21,08:53 = 08:47,08:53
+++-----	-----+	-+-----	+-----+	-----	08:21,08:41 = 08:41,08:47
+++-----	-----+	-+-----	+-----+	-----	08:21,08:58 = 08:47,08:58
+++-----	-----+	-+-----	+-----+	-----	08:21,08:46 = 08:46,08:47
+++-----	-----+	-+-----	+-----+	-----	08:21,08:56 = 08:47,08:56
+++-----	-----+	-+-----	+-----+	-----	08:01,08:21 = 08:01,08:47 = 08:21,08:21 = 08:21,08:47
+++-----	-----+	-+-----	+-----+	-----	08:26,08:28 = 08:26,08:35
+++-----	-----+	-+-----	+-----+	-----	08:28,08:50 = 08:35,08:50
+++-----	-----+	-+-----	+-----+	-----	08:01,08:26 = 08:50,08:56
+++-----	-----+	-+-----	+-----+	-----	08:28,08:29 = 08:29,08:35
+++-----	-----+	-+-----	+-----+	-----	08:28,08:30N = 08:30N,08:35
+++-----	-----+	-+-----	+-----+	-----	08:28,08:32 = 08:32,08:35
+++-----	-----+	-+-----	+-----+	-----	08:28,08:33 = 08:33,08:35
+++-----	-----+	-+-----	+-----+	-----	08:28,08:34 = 08:34,08:35
+++-----	-----+	-+-----	+-----+	-----	08:28,08:42 = 08:35,08:42

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+++-----	-----+-	-----	+-----+	-+-----	08:28,08:45 = 08:35,08:45
+++-----	-----+-	-----	+-----+	-+-----	08:28,08:51 = 08:35,08:51
+++-----	-----+-	-----	+-----+	----+----	08:28,08:53 = 08:35,08:53
+++-----	-----+-	-----	+-----+	----+----	08:28,08:41 = 08:35,08:41
+++-----	-----+-	-----	+-----+	-----+--	08:28,08:58 = 08:35,08:58
+++-----	-----+-	-----	+-----+	-----+--	08:28,08:46 = 08:35,08:46
+++-----	-----+-	-----	+-----+	-----+--	08:28,08:56 = 08:35,08:56
+++-----	-----+-	-----	+-----+	-----	08:01,08:28 = 08:01,08:35 = 08:28,08:35 = 08:35,08:35
+++-----	-----+-	-----	-+-----+	-----	08:01,08:29 = 08:29,08:29
+++-----	-----+-	-----	---+-----	-----	08:01,08:30N = 08:30N,08:30N
+++-----	-----+-	-----	-----+--	-----	08:01,08:32 = 08:32,08:32
+++-----	-----+-	-----	-----+--	-----	08:01,08:33 = 08:33,08:33
+++-----	-----+-	-----	-----+--	-----	08:01,08:34 = 08:34,08:34
+++-----	-----+-	-----	-----+--	-----	08:01,08:42 = 08:42,08:42
+++-----	-----+-	-----	-----+--	-----	08:01,08:45 = 08:45,08:45
+++-----	-----+-	-----	-----+--	-----	08:01,08:51 = 08:51,08:51
+++-----	-----+-	-----	-----+--	-----	08:01,08:53 = 08:53,08:53
+++-----	-----+-	-----	-----+--	-----	08:01,08:41 = 08:41,08:41
+++-----	-----+-	-----	-----+--	-----	08:01,08:58 = 08:58,08:58
+++-----	-----+-	-----	-----+--	-----	08:01,08:46 = 08:46,08:46
++-+++-	-----+-	-----	-----+--	-----	08:03,08:03 = 08:03,08:52
+--+++-	-----+-	---+-----	-----+--	-----	08:04,08:54 = 08:54,08:54
-+-----+	-----++	-----+--	-----+--	-----	08:06,08:13 = 08:06,08:25 = 08:20,08:25
-+-----+	-----++	-----+--	-----+--	-----	08:06,08:06 = 08:06,08:20
-+-----	-----++	---+-----	-----+--	-----	08:16,08:49 = 08:16,08:60
-+-----	-----++	-----	-----+--	-----	08:12,08:49 = 08:12,08:60 = 08:49,08:60
-+-----	-----++	---+-----	-----+--	-----	08:12,08:16 = 08:16,08:16
-+-----	-----++	-----+--	-----+--	-----	08:13,08:25 = 08:25,08:25
-+-----	-----++	-----	-----+--	+-----	08:13,08:55 = 08:55,08:55

08:01 = 08:01:01-08:01:10
08:12 = 08:12:01-08:12:03
08:41 = 08:41 and 08:48
08:45 = 08:45 and 08:59
08:51 = 08:51 and 08:57
08:58 = 08:58 and 08:61

SPECIFICITY TABLE

HLA-B*08 SSP subtyping

Specificities and sizes of the PCR products of the 40 primer mixes used for HLA-B*08 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-B*08 alleles ³	Other amplified HLA Class I alleles ⁴
1	215 bp	800 bp	*08:01:01-08:05, 08:07-08:08N, 08:10-08:11, 08:14-08:15, 08:17-08:19N, 08:21-08:24, 08:26-08:39, 08:41-08:48, 08:50-08:54, 08:56-08:59, 08:61	*07:04, 07:19, 07:25, 35:87, 37:09, 41:02:01-41:02:02, 41:04, 41:10-41:11, 42:01:01-42:02, 42:05:01-42:12
2	215 bp	800 bp	*08:01:01-08:03, 08:05-08:16, 08:18-08:25, 08:27-08:49, 08:51-08:53, 08:55-08:61	*15:180, 51:68
3	245 bp	1070 bp	*08:01:01-08:01:10, 08:04-08:14, 08:16-08:25, 08:27-08:46-08:49, 08:51, 08:53-08:61	*07:29, 15:142, 15:180, 39:12
4⁶	255 bp	1070 bp	*08:02	*44:49
5	245 bp	1070 bp	*08:03, 08:23, 08:52, 08:54	*15:142, 51:68
6	205 bp	800 bp	*08:04, 08:17, 08:24, 08:54	*15:142, 44:49
7^{6,9}	215 bp, 250 bp	1070 bp	*08:03, 08:05, 08:36	*51:68
8	170 bp	1070 bp	*08:06, 08:20, 08:40	*07:05:01-07:06, 07:32, 07:40, 07:53, 07:69, 07:78, 07:90, 07:97, 13:18, 13:31, 15:30, 15:58, 15:73, 15:150, 35:18, 35:44, 39:08, 39:11, 39:18, 39:33, 39:36, 40:15-40:16, 40:23, 48:05, 48:19, 51:05, 51:29, 51:54, 51:61, 51:82, 54:10, 54:20, 55:09, 55:21, 55:37, 57:02:01-57:02:02, 57:12, 57:28N

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9	165 bp	1070 bp	*08:07, 08:37	*07:04, 07:19, 07:25, 15:51, 15:179, 35:38, 37:09, 41:04, 42:09, 44:17, 44:51, 45:09, 53:22, 57:24
10^{5,10}	85 bp, 170 bp	800 bp	*08:08N, 08:40	
11	290 bp	800 bp	*08:09, 08:27	*41:01, 41:05-41:07, 41:12, 42:04, 55:20
12	385 bp	1070 bp	*08:10	
13^{5,11}	85 bp, 290 bp	1070 bp	*08:11, 08:49, 08:60	*42:13, 53:15
14^{5,12}	115 bp , 280 bp	1070 bp	*08:12:01-08:12:03, 08:16, 08:43, 08:49	*41:03:01-41:03:02, 42:13, 53:15
15⁵	75 bp	1070 bp	*08:01:01-08:25, 08:27-08:49, 08:50 ^w , 08:51-08:55, 08:57- 08:61	*07:29, 07:86 ^w , 14:11 ^w , 15:03:01 ^w -15:03:03 ^w , 15:09 ^w -15:10:02 ^w , 15:18:01 ^w -15:18:04 ^w , 15:23 ^w , 15:29 ^w , 15:37 ^w , 15:47 ^w , 15:49 ^w , 15:51 ^w - 15:52 ^w , 15:54 ^w , 15:61 ^w - 15:62 ^w , 15:64 ^w , 15:69 ^w , 15:72 ^w , 15:74 ^w , 15:80 ^w , 15:90 ^w -15:91 ^w , 15:93 ^w , 15:98 ^w -15:99 ^w , 15:103 ^w , 15:108 ^w , 15:114 ^w -15:115 ^w , 15:119 ^w , 15:123 ^w -15:124 ^w , 15:127 ^w , 15:131 ^w -15:134 ^w , 15:151 ^w , 15:153 ^w , 15:156 ^w , 15:158 ^w , 15:161 ^w , 15:173 ^w , 15:176 ^w , 15:180, 15:186 ^w , 18:25 ^w , 35:25 ^w , 39:04 ^w , 40:12 ^w , 48:22 ^w , 52:16 ^w , 54:21 ^w , 56:16 ^w , 58:12 ^w , 83:01 ^w
16⁵	105 bp	800 bp	*08:13, 08:25, 08:55	*53:15
17⁵	95 bp	1070 bp	*08:14	*07:28, 27:32, 44:54
18¹³	425 bp, 470 bp	800 bp	*08:15, 08:39	*07:13, 07:15, 07:92- 07:93, 39:27, 40:73, 67:02, 73:01
19¹⁴	245 bp, 415 bp	1070 bp	*08:16, 08:44	*07:13, 07:15, 67:02
20^{5,7,15}	140 bp, 205 bp	1070 bp	*08:17, 08:22, 08:38, 08:54	*15:142, 44:49
21	465 bp	1070 bp	*08:18	*73:01
22⁵	130 bp	800 bp	*08:19N	

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23 ^{5,16}	85 bp, 235 bp	800 bp	*08:06, 08:17 ^w , 08:21, 08:25, 08:47 ^w	*15:57 ^w , 15:135 ^w , 35:27 ^w , 35:56 ^w , 44:75 ^w , 53:15, 55:12 ^w , 78:06 ^w , C*05:30^w
24	215 bp	1070 bp	*08:26, 08:50	*07:08, 07:32, 07:38, 15:08, 15:29, 15:56, 15:191, 35:01:01-35:19, 35:21-35:25, 35:27, 35:29- 35:49, 35:51-35:62, 35:64- 35:71, 35:74-35:75, 35:77, 35:79-35:81, 35:83, 35:86- 35:94, 35:96-35:99, 38:06- 38:07, 44:06, 48:06, 51:01:01-51:01:11, 51:01:13-51:06, 51:08- 51:21, 51:23-51:24:03, 51:26-51:46, 51:48-51:67, 51:69-51:95, 52:06:01- 52:06:02, 53:01:01- 53:08:02, 53:10-53:16, 53:18-53:23, 59:01-59:05, 78:01-78:02:02, 78:04, 78:07
25	160 bp	1070 bp	*08:28, 08:35, 08:37	*15:51, 15:179, 42:09, 44:17, 45:09, 53:22, 57:24, C*07:68
26	390 bp	1070 bp	*08:29	
27 ^{5,17}	105 bp, 140 bp	1070 bp	*08:22, 08:30N	
28 ⁵	85 bp	1070 bp	*08:31	
29 ¹⁸	150 bp, 250 bp	1070 bp	*08:32, 08:36	*51:68
30	280 bp	1070 bp	*08:33	
31	380 bp	1070 bp	*08:34	
32 ⁷	230 bp	1070 bp	*08:01:01-08:06, 08:08N-08:13, 08:15- 08:27, 08:29-08:30N, 08:32-08:36, 08:38- 08:48, 08:50-08:61	*35:87, 41:01-41:03:02, 41:05, 41:07, 41:11-41:12, 42:01:01-42:02, 42:04, 42:06-42:07, 42:10-42:13, 55:20
33 ¹⁹	220 bp, 285 bp	800 bp	*08:42, 08:55	*38:19, 39:03, 39:14, 39:24, 39:29, 39:37
34 ²⁰	210 bp, 305 bp	1070 bp	*08:45, 08:59	
35 ^{5,21}	120 bp, 205 bp	1070 bp	*08:51, 08:57	
36 ⁵	115 bp	800 bp	*08:06, 08:20, 08:53	

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37²²	155 bp, 270 bp	1070 bp	*08:41, 08:48	
38²³	175 bp, 265 bp	1070 bp	*08:58, 08:61	
39⁸	190 bp	1070 bp	*08:46	
40	265 bp	1070 bp	*08:26, 08:56	*07:56, 07:72, 40:10 ⁷ , 40:21 ⁷ , 40:58 ⁷ , 41:12, 49:03

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*08 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 lengths 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*08 subtyping.

In addition, wells number 2, 6, 10, 11, 16, 18, 22, 23, 33 and 36 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.

³The B*08:21 and 08:47 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 23.

The B*08:41 and 08:48 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 37.

The B*08:45 and 08:59 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 34.

The B*08:51 and 08:57 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 35.

The B*08:58 and 08:61 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 38.

⁴Due to the sharing of sequence motifs between HLA-B alleles non-HLA-B*08 alleles will be amplified by primer mixes 1 to 9, 11, 13 to 25, 29, 32, 33 and 40. In addition, the C*05:30 allele will be amplified by the primer mix 23 and the C*07:68 allele will be amplified by primer mix 25.

⁵Short specific PCR fragments are less intense and not as sharp as longer specific bands.

⁶Primer mix 4 and 7 may have a tendency of giving rise to primer oligomer formation.

⁷Primer mix 32 may give a lower yield of specific PCR product.

⁸Primer mix 39 may have a tendency of giving rise to nonspecific amplifications.

⁹Primer mix 7: Specific PCR fragment of 215 bp in the B*08:05 allele. Specific PCR fragment of 250 bp in the B*08:03 and 08:36 and in the B*51:68 alleles.

¹⁰Primer mix 10: Specific PCR fragment of 85 bp in the B*08:40 allele. Specific PCR fragment of 170 bp in the B*08:08N allele.

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¹¹Primer mix 13: Specific PCR fragment of 85 bp in the B*08:11 allele. Specific PCR fragment of 290 bp in the B*08:49 and 08:60 and in the B*42:13 and 53:15 alleles.

¹²Primer mix 14: Specific PCR fragment of 115 bp in the B*08:43 allele. Specific PCR fragment of 280 bp in the B*08:12:01-08:12:03, 08:16 and 08:49 and in the B*41:03:01-41:03:02, 42:13 and 53:15 alleles.

¹³Primer mix 18: Specific PCR fragment of 425 bp in the B*08:15 and in the B*07:13, 07:15, 07:92, 39:27, 40:73, 67:02 and 73:01 alleles. Specific PCR fragment of 470 bp in the B*08:39 and in the B*07:93 alleles.

¹⁴Primer mix 19: Specific PCR fragment of 245 bp in the B*08:44 allele. Specific PCR fragment of 415 bp in the B*08:16 and in the B*07:13, 07:15, and 67:02 alleles.

¹⁵Primer mix 20: Specific PCR fragment of 140 bp in the B*08:22 allele. Specific PCR fragment of 205 bp in B*08:17, 08:38 and 08:54 and in the B*15:142 and 44:49 alleles.

¹⁶Primer mix 23: Specific PCR fragment of 85 bp in the B*08:21 and 08:25 and in the B*53:15 alleles. Specific PCR fragment of 235 bp in the B*08:06, 08:17 and 08:47 and in the B*15:57, 15:135, 35:27, 35:56, 44:75, 55:12 and 78:06 and in the C*05:30 alleles.

¹⁷Primer mix 27: Specific PCR fragment of 105 bp in the B*08:30N allele. Specific PCR fragment of 140 bp in the B*08:22 allele.

¹⁸Primer mix 29: Specific PCR fragment of 150 bp in the B*08:32 and in the B* 51:68 alleles. Specific fragment of 250 bp in the B*08:36 allele.

¹⁹Primer mix 33: Specific PCR fragment of 220 bp in the B*08:55 and in the B*38:19, 39:03, 39:14, 39:24, 39:29 and 39:37 alleles. Specific fragment of 285 bp in the B*08:42 allele.

²⁰Primer mix 34: Specific PCR fragment of 210 bp in the B*08:45 allele. Specific fragment of 305 bp in the B*08:59 allele.

²¹Primer mix 35: Specific PCR fragment of 120 bp in the B*08:51 allele. Specific fragment of 205 bp in the B*08:57 allele.

²²Primer mix 37: Specific PCR fragment of 155 bp in the B*08:41 allele. Specific fragment of 270 bp in the B*08:48 allele.

²³Primer mix 38: Specific PCR fragment of 175 bp in the B*08:61 allele. Specific fragment of 265 bp in the B*08:58 allele.

‘w’, might be weakly amplified.

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

INTERPRETATION TABLE																								
HLA-B*08 SSP subtyping																								
Amplification patterns of the B*08:01 to B*08:61 alleles																								
	Well ⁹																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Length of spec.	215	215	245	255	245	205	215	170	165	85	290	385	85	115	75	105	95	425	245	140	465	130	85	215
PCR product(s)							250			170			290	280				470	415	205			235	
Length of int. pos. control ¹	800	800	1070	1070	1070	800	1070	1070	1070	800	800	1070	1070	1070	1070	800	1070	800	1070	1070	1070	800	800	1070
5'-primer(s) ²	5'-AgC ^{3'} 363	5'-TCg ^{3'} 97	5'-TCg ^{3'} 97	5'-TCg ^{3'} 97	5'-TCg ^{3'} 97	5'-TCg ^{3'} 97	5'-TCg ^{3'} 97	5'-ATA ^{3'} 412	5'-ATg ^{3'} 412	5'-Cg ^{3'} 475	5'-TCC ^{3'} 355	5'-ggC ^{3'} 44	5'-TCA ^{3'} 355	5'-Agg ^{3'} 363	5'-CCA ^{3'} 106	5'-gCT ^{3'} 539	5'-AgC ^{3'} 363	5'-ggC ^{3'} 44	5'-ggC ^{3'} 44	5'-TCg ^{3'} 97	5'-ggC ^{3'} 44	5'-CAC ^{3'} 636	5'-CCA ^{3'} 106	5'-TCT ^{3'} 97
										5'-CgA ^{3'} 560	5'-Tgg ^{3'} 357		5'-CgC ^{3'} 560	5'-Agg ^{3'} 363						5'-AgC ^{3'} 363			5'-CCT ^{3'} 560	
														5'-ggT ^{3'} 530										
3'-primer(s) ³	5'-gTC ^{3'} 538	5'-TgA ^{3'} 272	5'-TCT ^{3'} 299	5'-gTg ^{3'} 309	5'-gTA ^{3'} 292	5'-CCg ^{3'} 251	5'-Agg ^{3'} 269	5'-TCC ^{3'} 539	5'-gTC ^{3'} 538	5'-gTg ^{3'} 603	5'-gTg ^{3'} 603	5'-gTC ^{3'} 259	5'-gTg ^{3'} 603	5'-gTg ^{3'} 603	5'-TgA ^{3'} 142	5'-gTg ^{3'} 603	5'-gTC ^{3'} 418	5'-TCA ^{3'} 299	5'-ggg ^{3'} 119	5'-gTC ^{3'} 261	5'-CgT ^{3'} 341	5'-CTA ^{3'} 724	5'-ggT ^{3'} 302	5'-TgA ^{3'} 272
					5'-ATC ^{3'} 309	5'-Tgg ^{3'} 272	5'-ggT ^{3'} 302												5'-T ^{3'} 343	5'-AgC ^{3'} 289	5'-gCg ^{3'} 461			5'-gTg ^{3'} 603
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
HLA-B allele																								
*08:01:01-08:01:10	1	2	3												15									
*08:02	1	2		4											15									
*08:03	1	2			5		7								15									
*08:04	1		3			6									15									
*08:05	1	2	3				7								15									
*08:06		2	3					8							15									23
*08:07	1	2	3						9						15									
*08:08N	1	2	3							10					15									
*08:09		2	3								11				15									
*08:10	1	2	3									12			15									
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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Length of spec.	215	215	245	255	245	205	215	170	165	85	290	385	85	115	75	105	95	425	245	140
PCR product(s)							250			170			290	280				470	415	205
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
*08:11	1	2	3										13		15					
*08:12:01-08:12:03		2	3											14	15					
*08:13		2	3												15	16				
*08:14	1	2	3												15		17			
*08:15	1	2													15			18		
*08:16		2	3											14	15				19	
*08:17	1		3			6									15					20
*08:18	1	2	3												15					
*08:19N	1	2	3												15					
*08:20		2	3					8							15					
*08:21, 08:47 ⁴	1	2	3												15					
*08:22	1	2	3												15					20
*08:23	1	2	3		5										15					
*08:24	1	2	3			6									15					
*08:25		2	3												15	16				
*08:26	1																			
*08:27	1	2	3							11					15					
*08:28	1	2	3												15					
*08:29	1	2	3												15					
*08:30N	1	2	3												15					
*08:31	1	2	3												15					
*08:32	1	2	3												15					
*08:33	1	2	3												15					
*08:34	1	2	3												15					
*08:35	1	2	3												15					
*08:36	1	2	3				7								15					
*08:37	1	2	3						9						15					
*08:38	1	2	3												15					20
*08:39	1	2	3												15		18			
*08:40		2	3				8		10						15					
*08:41, 08:48 ⁵	1	2	3												15					
*08:42	1	2	3												15					
*08:43	1	2	3											14	15					
*08:44	1	2	3												15				19	
*08:45, 08:59 ⁶	1	2	3												15					
*08:46	1	2	3												15					
*08:49		2	3										13	14	15					
*08:50	1														w					
*08:51, 08:57 ⁷	1	2	3												15					
*08:52	1	2			5										15					
*08:53	1	2	3												15					
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

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465	130	85	215	160	390	105	85	150	280	380	230	220	210	120	115	155	175	190	265	Length of spec.
		235				140		250				285	305	205		270	265			PCR product(s)
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Well No.
											32									*08:11
											32									*08:12:01-08:12:03
											32									*08:13
																				*08:14
											32									*08:15
											32									*08:16
		w									32									*08:17
21											32									*08:18
	22										32									*08:19N
											32			36						*08:20
		23									32									*08:21, 08:47 ⁴
						27					32									*08:22
											32									*08:23
											32									*08:24
		23									32									*08:25
			24								32							40		*08:26
											32									*08:27
				25							32									*08:28
					26						32									*08:29
						27					32									*08:30N
							28				32									*08:31
								29			32									*08:32
									30		32									*08:33
										31	32									*08:34
				25							32									*08:35
								29			32									*08:36
				25							32									*08:37
											32									*08:38
											32									*08:39
											32									*08:40
											32					37				*08:41, 08:48 ⁵
											32	33								*08:42
											32									*08:43
											32									*08:44
											32		34							*08:45, 08:59 ⁶
											32							39		*08:46
											32									*08:49
			24								32									*08:50
											32			35						*08:51, 08:57 ⁷
											32									*08:52
											32				36					*08:53
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Well No.

Lot No.: **07K**

Lot-specific information

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Length of spec.	215	215	245	255	245	205	215	170	165	85	290	385	85	115	75	105	95	425	245	140	
PCR product(s)							250			170			290	280				470	415	205	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
*08:54	1		3		5	6									15					20	
*08:55		2	3												15	16					
*08:56	1	2	3																		
*08:58, 08:61 ⁸	1	2	3												15						
*08:60		2	3										13		15						
*07:04, 07:19, 07:25, 37:09, 41:04	1								9												
*07:05:01-07:06, 07:40, 07:53, 07:69, 07:78, 07:90, 07:97, 13:18, 13:31, 15:30, 15:58, 15:73, 15:150, 39:08, 39:11, 39:18, 39:33, 39:36, 40:15- 40:16, 40:23, 48:05, 48:19, 54:10, 54:20, 55:09, 55:21, 55:37, 57:02:01-57:02:02, 57:12, 57:28N								8													
*07:08, 07:38, 15:08, 15:56, 15:191, 35:01:01-35:17, 35:19, 35:21-35:24:02, 35:29- 35:37, 35:39-35:43, 35:45-35:49, 35:51- 35:55, 35:57-35:62, 35:64-35:71, 35:74- 35:75, 35:77, 35:79- 35:81, 35:83, 35:86, 35:88-35:94, 35:96- 35:99, 38:06-38:07, 44:06, 48:06, 51:01:01- 51:01:11, 51:01:13- 51:04, 51:06, 51:08- 51:21, 51:23-51:24:03, 51:26-51:28, 51:30- 51:46, 51:48-51:53, 51:55-51:60, 51:62- 51:67, 51:69-51:81, 51:83-51:95, 52:06:01- 52:06:02, 53:01:01- 53:08:02, 53:10-53:14, 53:16, 53:18-53:21, 53:23, 59:01-59:05, 78:01-78:02:02, 78:04, 78:07																					
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	

Lot No.: **07K**

Lot-specific information

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465	130	85	215	160	390	105	85	150	280	380	230	220	210	120	115	155	175	190	265	Length of spec.	
		235				140		250				285	305	205		270	265			PCR product(s)	
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Well No.	
											32										*08:54
											32	33									*08:55
											32								40		*08:56
											32						38				*08:58, 08:61 ⁸
											32										*08:60
																					*07:04, 07:19, 07:25, 37:09, 41:04
																					*07:05:01-07:06, 07:40, 07:53, 07:69, 07:78, 07:90, 07:97, 13:18, 13:31, 15:30, 15:58, 15:73, 15:150, 39:08, 39:11, 39:18, 39:33, 39:36, 40:15- 40:16, 40:23, 48:05, 48:19, 54:10, 54:20, 55:09, 55:21, 55:37, 57:02:01-57:02:02, 57:12, 57:28N
			24																		*07:08, 07:38, 15:08, 15:56, 15:191, 35:01:01-35:17, 35:19, 35:21-35:24:02, 35:29- 35:37, 35:39-35:43, 35:45-35:49, 35:51- 35:55, 35:57-35:62, 35:64-35:71, 35:74- 35:75, 35:77, 35:79- 35:81, 35:83, 35:86, 35:88-35:94, 35:96- 35:99, 38:06-38:07, 44:06, 48:06, 51:01:01- 51:01:11, 51:01:13- 51:04, 51:06, 51:08- 51:21, 51:23-51:24:03, 51:26-51:28, 51:30- 51:46, 51:48-51:53, 51:55-51:60, 51:62- 51:67, 51:69-51:81, 51:83-51:95, 52:06:01- 52:06:02, 53:01:01- 53:08:02, 53:10-53:14, 53:16, 53:18-53:21, 53:23, 59:01-59:05, 78:01-78:02:02, 78:04, 78:07
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Well No.	

Lot No.: **07K**

Lot-specific information

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Length of spec.	215	215	245	255	245	205	215	170	165	85	290	385	85	115	75	105	95	425	245	140	465	130	85	215
PCR product(s)							250			170			290	280				470	415	205			235	
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
*07:13, 07:15, 67:02																		18	19					
*07:28, 27:32, 44:54																	17							
*07:29			3													15								
*07:32, 35:18, 35:44, 51:05, 51:29, 51:54, 51:61, 51:82								8																24
*07:56, 07:72, 49:03																								
*07:86, 14:11, 15:03:01-15:03:03, 15:09-15:10:02, 15:18:01-15:18:04, 15:23, 15:37, 15:47, 15:49, 15:52, 15:54, 15:61-15:62, 15:64, 15:69, 15:72, 15:74, 15:80, 15:90-15:91, 15:93, 15:98-15:99, 15:103, 15:108, 15:114-15:115, 15:119, 15:123- 15:124, 15:127, 15:131-15:134, 15:151, 15:153, 15:156, 15:158, 15:161, 15:173, 15:176, 15:186, 18:25, 39:04, 40:12, 48:22, 52:16, 54:21, 56:16, 58:12, 83:01																w								
*07:92-07:93, 39:27, 40:73																		18						
*15:29, 35:25																w								24
*15:51									9							w								
*15:57, 15:135, 44:75, 55:12, 78:06, C*05:30																								w
*15:142			3		5	6														20				
*15:179, 44:17, 45:09, 57:24									9															
*15:180		2	3													15								
*35:27, 35:56																							w	24
*35:38									9															24
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.: **07K**

Lot-specific information

www.olerup-ssp.com

160	390	105	85	150	280	380	230	220	210	120	115	155	175	190	265	Length of spec.
		140		250				285	305	205		270	265			PCR product(s)
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Well No.
																*07:13, 07:15, 67:02
																*07:28, 27:32, 44:54
																*07:29
																*07:32, 35:18, 35:44, 51:05, 51:29, 51:54, 51:61, 51:82
															40	*07:56, 07:72, 49:03
																*07:86, 14:11, 15:03:01-15:03:03, 15:09-15:10:02, 15:18:01-15:18:04, 15:23, 15:37, 15:47, 15:49, 15:52, 15:54, 15:61-15:62, 15:64, 15:69, 15:72, 15:74, 15:80, 15:90-15:91, 15:93, 15:98-15:99, 15:103, 15:108, 15:114-15:115, 15:119, 15:123- 15:124, 15:127, 15:131-15:134, 15:151, 15:153, 15:156, 15:158, 15:161, 15:173, 15:176, 15:186, 18:25, 39:04, 40:12, 48:22, 52:16, 54:21, 56:16, 58:12, 83:01
																*07:92-07:93, 39:27, 40:73
																*15:29, 35:25
25																*15:51
																*15:57, 15:135, 44:75, 55:12, 78:06, C*05:30
																*15:142
25																*15:179, 44:17, 45:09, 57:24
																*15:180
																*35:27, 35:56
																*35:38
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Well No.

Lot No.: **07K**

Lot-specific information

www.olerup-ssp.com

Length of spec.	215	215	245	255	245	205	215	170	165	85	290	385	85	115	75	105	95	425	245	140	465	130	85	215	
PCR product(s)							250			170			290	280				470	415	205			235		
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	
*35:87	1																							24	
*38:19, 39:03, 39:14, 39:24, 39:29, 39:37																									
*39:12			3																						
*40:10, 40:21, 40:58																									
*41:01, 41:05, 41:07, 42:04, 55:20											11														
*41:02:01- 41:02:02, 41:11, 42:01:01-42:02, 42:06-42:07, 42:10- 42:12	1																								
*41:03:01-41:03:02														14											
*41:06										11															
*41:10, 42:05:01- 42:05:02, 42:08	1																								
*41:12											11														
*42:09	1								9																
*42:13													13	14											
*44:49				4		6															20				
*44:51									9																
*51:68		2			5		7																		
*53:15													13	14		16								23	24
*53:22									9																24
*73:01																		18			21				
C*07:68																									
HLA-B allele																									
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*08 subtyping.

In addition, wells number 2, 6, 10, 11, 16, 18, 22, 23, 33 and 36 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

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 or the 3rd 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 web site. The sequence of the 3 terminal nucleotides of the primer is given.

Lot No.: **07K**

Lot-specific information

www.olerup-ssp.com

160	390	105	85	150	280	380	230	220	210	120	115	155	175	190	265	Length of spec.
		140		250				285	305	205		270	265			PCR product(s)
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Well No.
							32									*35:87
								33								*38:19, 39:03, 39:14, 39:24, 39:29, 39:37
																*39:12
														?		*40:10, 40:21, 40:58
							32									*41:01, 41:05, 41:07, 42:04, 55:20
							32									*41:02:01- 41:02:02, 41:11, 42:01:01-42:02, 42:06-42:07, 42:10- 42:12
							32									*41:03:01-41:03:02
																*41:06
																*41:10, 42:05:01- 42:05:02, 42:08
							32							40		*41:12
25																*42:09
							32									*42:13
																*44:49
																*44:51
				29												*51:68
																*53:15
25																*53:22
																*73:01
25																C*07:68
																HLA-B allele
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Well No.

⁴The B*08:21 and 08:47 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 23.

⁵The B*08:41 and 08:48 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 37.

⁶The B*08:45 and 08:59 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 34.

⁷The B*08:51 and 08:57 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 35.

⁸The B*08:58 and 08:61 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 38.

⁹Primer mix 7: Specific PCR fragment of 215 bp in the B*08:05 allele. Specific PCR fragment of 250 bp in the B*08:03 and 08:36 and in the B*51:68 alleles.

Primer mix 10: Specific PCR fragment of 85 bp in the B*08:40 allele. Specific PCR fragment of 170 bp in the B*08:08N allele.

Primer mix 13: Specific PCR fragment of 85 bp in the B*08:11 allele. Specific PCR fragment of 290 bp in the B*08:49 and 08:60 and in the B*42:13 and 53:15 alleles.

Lot No.: **07K**

Lot-specific information

www.olerup-ssp.com

Primer mix 14: Specific PCR fragment of 115 bp in the B*08:43 allele. Specific PCR fragment of 280 bp in the B*08:12:01-08:12:03, 08:16 and 08:49 and in the B*41:03:01-41:03:02, 42:13 and 53:15 alleles.

Primer mix 18: Specific PCR fragment of 425 bp in the B*08:15 and in the B*07:13, 07:15, 07:92, 39:27, 40:73, 67:02 and 73:01 alleles. Specific PCR fragment of 470 bp in the B*08:39 and in the B*07:93 alleles.

Primer mix 19: Specific PCR fragment of 245 bp in the B*08:44 allele. Specific PCR fragment of 415 bp in the B*08:16 and in the B*07:13, 07:15, and 67:02 alleles.

Primer mix 20: Specific PCR fragment of 140 bp in the B*08:22 allele. Specific PCR fragment of 205 bp in B*08:17, 08:38 and 08:54 and in the B*15:142 and 44:49 alleles.

Primer mix 23: Specific PCR fragment of 85 bp in the B*08:21 and 08:25 and in the B*53:15 alleles. Specific PCR fragment of 235 bp in the B*08:06, 08:17 and 08:47 and in the B*15:57, 15:135, 35:27, 35:56, 44:75, 55:12 and 78:06 and in the C*05:30 alleles.

Primer mix 27: Specific PCR fragment of 105 bp in the B*08:30N allele. Specific PCR fragment of 140 bp in the B*08:22 allele.

Primer mix 29: Specific PCR fragment of 150 bp in the B*08:32 and in the B* 51:68 alleles. Specific fragment of 250 bp in the B*08:36 allele.

Primer mix 33: Specific PCR fragment of 220 bp in the B*08:55 and in the B*38:19, 39:03, 39:14, 39:24, 39:29 and 39:37 alleles. Specific fragment of 285 bp in the B*08:42 allele.

Primer mix 34: Specific PCR fragment of 210 bp in the B*08:45 allele. Specific fragment of 305 bp in the B*08:59 allele.

Primer mix 35: Specific PCR fragment of 120 bp in the B*08:51 allele. Specific fragment of 205 bp in the B*08:57 allele.

Primer mix 37: Specific PCR fragment of 155 bp in the B*08:41 allele. Specific fragment of 270 bp in the B*08:48 allele.

Primer mix 38: Specific PCR fragment of 175 bp in the B*08:61 allele. Specific fragment of 265 bp in the B*08:58 allele.

‘w’, might be weakly amplified.

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

CELL LINE VALIDATION SHEET																				
HLA-B*08 SSP subtyping kit																				
				Prod. No.:	Well															
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
					201071601	201071602	201071603	201071604	201071605	201071606	201071607	201071608	201071609	201071610	201071611	201071612	201071613	201071614	201071615	201071616
	IHWC cell line		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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CELL LINE VALIDATION SHEET																			
HLA-B*08 SSP subtyping kit																			
			Prod. No.:	Well															
				17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	IHWC cell line	B*		201071617	201071618	201071619	201071620	201071621	201071622	201071623	201071624	201071625	201071626	201071627	201071628	201071629	201071630	201071631	201071632
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	9007 DEM	*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 OLGGA	*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	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-

CELL LINE VALIDATION SHEET												
HLA-B*08 SSP subtyping kit												
				Prod. No.:	Well							
					33	34	35	36	37	38	39	40
					201071633	201071634	201071635	201071636	201071637	201071638	201071639	201071640
	IHWC cell line	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	9007 DEM	*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*08 SSP

Product number: 101.513-24/04 – including *Taq* pol.
Lot number: 07K
Expiry date: 2012-June-01
Number of tests: 24 tests – Product No. 101.513-24
4 tests – Product No. 101.513-04
Number of wells per test: 40

Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2010-716-01	17	2010-716-17	33	2010-716-33
2	2010-716-02	18	2010-716-18	34	2010-716-34
3	2010-716-03	19	2010-716-19	35	2010-716-35
4	2010-716-04	20	2010-716-20	36	2010-716-36
5	2010-716-05	21	2010-716-21	37	2010-716-37
6	2010-716-06	22	2010-716-22	38	2010-716-38
7	2010-716-07	23	2010-716-23	39	2010-716-39
8	2010-716-08	24	2010-716-24	40	2010-716-40
9	2010-716-09	25	2010-716-25		
10	2010-716-10	26	2010-716-26		
11	2010-716-11	27	2010-716-27		
12	2010-716-12	28	2010-716-28		
13	2010-716-13	29	2010-716-29		
14	2010-716-14	30	2010-716-30		
15	2010-716-15	31	2010-716-31		
16	2010-716-16	32	2010-716-32		

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 5 to 7, 9, 10, 12 to 14, 16, 17, 19, 20, 23, 25 to 31 and 33 to 40 were available. The specificities of the primers in primer solutions 5 to 7, 9, 10, 13, 14, 16, 17, 19, 20, 23, 25, 29, 36 and 40 were tested by separately adding one additional 5'-primer, respectively one additional 3'-primer. The specificity of the 5'-primers in primer solutions 12, 27, 34 and 39 were tested by adding one additional 3'-primer, the 3'-primers were not possible to test. In primer solutions 26, 28, 30, 31, 35, 37 and 38 it was only possible to test the 3'-primers, the 5'-primers were not possible to test. In primer solutions 6, 19, 20, 29 and 33 one of the 3'-primers was not possible to test, and in primer solutions 10, 13 and 14 one of the 5'-primers was not possible to test. Additional primers in primer solutions 11 and 18 were tested by separately adding one additional 3'-primer respective one additional 5'-primer.

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

Date of approval: 2012-June -29

Approved by:

Production Quality Control

Lot No.: **07K**

Lot-specific information

www.olerup-ssp.com

Declaration of Conformity

Product name: *Olerup* SSP® HLA-B*08
Product number: 101.513-24/04
Lot number: 07K

Intended use: HLA-B*08 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-June-29

Ann-Cathrin Jareman
Head of QA and Regulatory Affairs

Lot No.: **07K**

Lot-specific information

www.olerup-ssp.com

ADDRESSES:

Manufacturer:

Olerup SSP AB, Franzengatan 5, SE-112 51 Stockholm, Sweden.

Tel: +46-8-717 88 27

Fax: +46-8-717 88 18

E-mail: info-ssp@olerup.com

Web page: <http://www.olerup-ssp.com>

Distributed by:

Olerup GmbH, Löwengasse 47 / 6, AT-1030 Vienna, Austria.

Tel: +43-1-710 15 00

Fax: +43-1-710 15 00 10

E-mail: support-at@olerup.com

Web page: <http://www.olerup.com>

Olerup Inc., 901 S. Bolmar St., Suite R, West Chester, PA 19382

Tel: 1-877-OLERUP1

Fax: 610-344-7989

E-mail: info.us@olerup.com

Web page: <http://www.olerup.com>

For information on *Olerup* SSP distributors worldwide, contact **Olerup GmbH**.