

101.614-12 – including *Taq* pol., IFU-01
101.614-12u– without *Taq* pol., IFU-02

Visit www.olerup-ssp.com for
“Instructions for Use” (IFU)

Lot No.: **07S**

Lot-specific information
Olerup SSP[®] HLA-C*06

Product number:	101.614-12 – including <i>Taq</i> polymerase 101.614-12u – without <i>Taq</i> polymerase
Lot number:	07S
Expiry date:	2015-October-01
Number of tests:	12
Number of wells per test:	47
Storage - pre-aliquoted primers:	dark at -20°C
- PCR Master Mix:	-20°C0
- Adhesive PCR seals	RT
- Product Insert	RT

This Product Description is only valid for Lot No. 07S.

**CHANGES COMPARED TO THE PREVIOUS OLERUP SSP[®]
HLA-C*06 LOT (76N)**

The HLA-C*06 specificity and interpretation tables have been updated for the HLA-C alleles described since the previous *Olerup SSP[®]* HLA-C*06 lot was made (Lot No. 76N).

The HLA-C*06 kit is updated for new alleles to enable separation of:

- Confirmed¹ alleles as listed in the IMGT/HLA database
- Polymorphisms in exons outside of the region encoding the peptide binding domain
- Null and Alternatively expressed alleles

Six wells have been added to the HLA-C*06 kit, wells **42 to 47**.

The Lot-specific information for HLA-C*06 including and without *Taq* polymerase is now described in one common Product Insert.

¹As described in section Uniquely Identified Alleles.

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

Well	5'-primer	3'-primer	rationale
42	New	New	New primer pair for the C*06:53:01 and 06:53:02 alleles
43	New	New	New primer pair for the C*06:76:01 and 06:76:02 alleles
44	New	New	New primer pair for the C*06:77 allele.
45	New	New	New primer pair for the C*06:79N allele.
46	New	New	New primer pair for the C*06:81 allele.
47	New	New	New primer pair for the C*06:83 allele.

Change in revision R01 compared to R00:

1. The C*07:138 and B*15:32 alleles are weakly amplified by primer mix 24. This has been corrected in the Specificity and Interpretation Tables.

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PRODUCT DESCRIPTION

HLA-C*06 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the HLA-C*06:02 to HLA-C*06:96 alleles.

PLATE LAYOUT

Each test consists of 47 PCR reactions in a 48 well PCR plate. Well 48 is empty.

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	47	45	46	47	empty

The 48 well cut PCR plate is marked with ‘HLA-C*06’ in silver/gray ink.

Well No. 1 is marked with the Lot No. ‘07S’.

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-C*06 SSP subtypings will be influenced by the C*01, thirteen C*02, the C*03, most C*04, the C*05, several C*07, the C*08, the C*12, the C*14, the C*15, fifteen C*16, the C*17 and the C*18 alleles when present on the other haplotype. In addition, the B*58:02 allele will be amplified by primer mix 4, the B*15:137 allele will be amplified by the primer mix 9, the B*15:193 allele will be amplified by the primer mix 10 and 11, the B*35:178 allele will be amplified by the primer mix 14, the B*08:56:01-08:56:02, B*15:142, B*35:218, B*51:68 and B*57:49 alleles will be amplified by primer mix 19, the B*13:31, B*13:41, B*15:32^W, B*15:58, B*15:73, B*15:137, B*39:36 and B*55:21 alleles will be amplified by primer mix 24, the B*39:79 allele will be amplified by the primer mix 27, the A*26:79 and B*15:207 alleles will be amplified by the primer mix 29, the B*51:39 allele will be amplified by the primer mix 41 and the A*11:47, B*37:01:04 and B*54:02 alleles will be amplified by the primer mix 44.

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UNIQUELY IDENTIFIED ALLELES

All the HLA-C*06 alleles, i.e. **C*06:02 to C*06:96**, recognized by the HLA Nomenclature Committee in January 2013¹ will be amplified by the primers in the HLA-C*06 SSP kit².

The HLA-C*06 kit enables separation of the confirmed HLA-C*06 alleles as listed in the IMGT/HLA database. An HLA allele is listed as confirmed by IMGT/HLA if it has been sequenced by more than a single laboratory or from multiple sources. Current allele confirmation status for HLA-C*06 alleles is listed below.

The HLA-C*06 kit also enables identification of polymorphisms in exons outside of the region encoding the peptide binding domain and of null and alternatively expressed alleles

The HLA-C*06 primer set cannot distinguish the silent mutations in the C*06:02:01:01-06:02:01:02, C*06:02:03-06:02:25, C*06:03:01-06:03:02 and C*06:53:01-06:53:02 alleles.

The C*06:07 and C*06:33 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 7.

The C*06:16N and C*06:21 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 16.

The C*06:24 and C*06:37 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 17.

The C*06:25 and C*06:36 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 21.

The C*06:27 and C*06:29 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 20.

The C*06:46N and C*06:65 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 35.

The C*06:57 and C*06:58 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 36.

The C*06:60 and C*06:69 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 33.

The C*06:70 and C*06:73 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 38.

¹HLA-C alleles listed on the IMGT/HLA web page 2013-January-11, release 3.11.0, www.ebi.ac.uk/imgt/hla.

²The HLA-C*06 primer set cannot separate the C*06:72 and the C*03:39 and 12:16 or the C*06:76:02 and 12:03:01:01-12:03:08, 12:03:10-12:04:02, 12:06-12:07, 12:12-12:13, 12:15, 12:23, 12:25-12:26, 12:28-12:29, 12:34-12:35, 12:37-12:39N, 12:42Q-12:43, 12:45-12:48, 12:51-12:52, 12:54-12:55, 12:57-12:63, 12:65-12:66, 12:70, 12:75-12:79, 12:81-12:82 and 12:87-12:94 alleles. These alleles can be distinguished by the HLA-C low resolution kit and/or the HLA-C*03 and HLA-C*12 high resolution kit, respectively.

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ALLELE CONFIRMATION STATUS

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
C*06:02:01:01	Confirmed	C*06:17	Unconfirmed	C*06:56	Unconfirmed	C*06:95	Unconfirmed
C*06:02:01:02	Confirmed	C*06:18	Confirmed	C*06:57	Confirmed	C*06:96	Unconfirmed
C*06:02:03	Confirmed	C*06:19	Unconfirmed	C*06:58	Confirmed		
C*06:02:04	Confirmed	C*06:20	Unconfirmed	C*06:59	Confirmed		
C*06:02:05	Confirmed	C*06:21	Unconfirmed	C*06:60	Confirmed		
C*06:02:06	Confirmed	C*06:22	Unconfirmed	C*06:61	Unconfirmed		
C*06:02:07	Confirmed	C*06:23	Confirmed	C*06:62	Unconfirmed		
C*06:02:08	Confirmed	C*06:24	Confirmed	C*06:63	Unconfirmed		
C*06:02:09	Confirmed	C*06:25	Unconfirmed	C*06:64	Unconfirmed		
C*06:02:10	Unconfirmed	C*06:26	Confirmed	C*06:65	Confirmed		
C*06:02:11	Unconfirmed	C*06:27	Confirmed	C*06:66	Confirmed		
C*06:02:12	Confirmed	C*06:28	Confirmed	C*06:67	Unconfirmed		
C*06:02:13	Unconfirmed	C*06:29	Unconfirmed	C*06:68	Unconfirmed		
C*06:02:14	Unconfirmed	C*06:30	Confirmed	C*06:69	Confirmed		
C*06:02:15	Unconfirmed	C*06:31	Unconfirmed	C*06:70	Confirmed		
C*06:02:16	Unconfirmed	C*06:32	Unconfirmed	C*06:71	Unconfirmed		
C*06:02:17	Unconfirmed	C*06:33	Confirmed	C*06:72	Unconfirmed		
C*06:02:18	Unconfirmed	C*06:34	Confirmed	C*06:73	Unconfirmed		
C*06:02:19	Unconfirmed	C*06:35	Confirmed	C*06:74	Unconfirmed		
C*06:02:20	Unconfirmed	C*06:36	Unconfirmed	C*06:75	Unconfirmed		
C*06:02:21	Unconfirmed	C*06:37	Unconfirmed	C*06:76:01	Unconfirmed		
C*06:02:22	Unconfirmed	C*06:38	Unconfirmed	C*06:76:02	Unconfirmed		
C*06:02:23	Unconfirmed	C*06:39	Unconfirmed	C*06:77	Unconfirmed		
C*06:02:24	Unconfirmed	C*06:40	Unconfirmed	C*06:78	Unconfirmed		
C*06:02:25	Unconfirmed	C*06:41	Unconfirmed	C*06:79N	Unconfirmed		
C*06:03:01	Unconfirmed	C*06:42	Unconfirmed	C*06:80	Unconfirmed		
C*06:03:02	Unconfirmed	C*06:43	Confirmed	C*06:81	Confirmed		
C*06:04	Confirmed	C*06:44	Unconfirmed	C*06:82	Unconfirmed		
C*06:05	Unconfirmed	C*06:45	Unconfirmed	C*06:83	Unconfirmed		
C*06:06	Confirmed	C*06:46N	Unconfirmed	C*06:84	Unconfirmed		
C*06:07	Unconfirmed	C*06:47	Confirmed	C*06:85	Unconfirmed		
C*06:08	Unconfirmed	C*06:48	Unconfirmed	C*06:86	Unconfirmed		
C*06:09	Confirmed	C*06:49N	Confirmed	C*06:87	Unconfirmed		
C*06:10	Unconfirmed	C*06:50	Confirmed	C*06:88	Unconfirmed		
C*06:11	Confirmed	C*06:51	Unconfirmed	C*06:89	Unconfirmed		
C*06:12	Confirmed	C*06:52	Unconfirmed	C*06:90	Unconfirmed		
C*06:13	Unconfirmed	C*06:53:01	Unconfirmed	C*06:91	Unconfirmed		
C*06:14	Confirmed	C*06:53:02	Unconfirmed	C*06:92	Unconfirmed		
C*06:15	Confirmed	C*06:54	Confirmed	C*06:93	Unconfirmed		
C*06:16N	Unconfirmed	C*06:55	Unconfirmed	C*06:94	Unconfirmed		

¹ Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2013-January-11, release 3.11.0, www.ebi.ac.uk/imgt/hla.

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RESOLUTION IN HOMO- AND HETEROZYGOTES

A total of 122 alleles generate 60 amplification patterns that can be combined in 1830 homozygous and heterozygous combinations. 507 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.

+-----	-----	-----	-----	-----	+-----	*06:72, *06:81 = *06:81, *06:81
+-----	-----	-----	-----	-----	+-----	*06:72, *06:79N = *06:79N, *06:79N
+-----	-----	-----	--+	-----	-----	*06:40, *06:40 = *06:40, *06:72
+-----	-----	-----	-----	-----	-----	*06:35, *06:35 = *06:35, *06:72
+-----	-----	-----	-----	-----	-----	*06:14, *06:14 = *06:14, *06:72
+-----	-----	-----	-----	-----	-----	*06:06, *06:06 = *06:06, *06:72
+-----	-----	-----	-----	-----	-----	*06:04, *06:04 = *06:04, *06:72
++-----	-----	-----	-----	-----	-----	*06:02:01:01, *06:02:01:01 = *06:02:01:01, *06:72
-+-----	-----	-----	-----	-----	+-----	*06:03:02, *06:76:01 = *06:03:02, *06:76:02 = *06:76:01, *06:76:01 = *06:76:01, *06:76:02
-++-----	-----	-----	-----	-----	+-----	*06:03:01, *06:03:01 = *06:03:01, *06:03:02
+-----	-----	-----	-----	-----	-----	*06:05, *06:05 = *06:05, *06:06 = *06:05, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:83 = *06:72, *06:83 = *06:83, *06:83
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:77 = *06:72, *06:77
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:76:02 = *06:72, *06:76:02
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:53:01 = *06:53:01, *06:53:01 = *06:53:01, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:03:02 = *06:03:02, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:54 = *06:54, *06:54 = *06:54, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:50 = *06:50, *06:50 = *06:50, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:70 = *06:70, *06:70 = *06:70, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:49N = *06:49N, *06:49N = *06:49N, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:57 = *06:57, *06:57 = *06:57, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:46N = *06:46N, *06:46N = *06:46N, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:60 = *06:60, *06:60 = *06:60, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:66 = *06:66, *06:66 = *06:66, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:45 = *06:45, *06:45 = *06:45, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:44 = *06:44, *06:44 = *06:44, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:43 = *06:43, *06:43 = *06:43, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:41 = *06:41, *06:41 = *06:41, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:40 = *06:02:01:01, *06:42 = *06:40, *06:42 = *06:42, *06:42 = *06:42, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:39 = *06:39, *06:39 = *06:39, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:38 = *06:38, *06:38 = *06:38, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:34 = *06:02:01:01, *06:35 = *06:34, *06:34 = *06:34, *06:35 = *06:34, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:31 = *06:31, *06:31 = *06:31, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:30 = *06:30, *06:30 = *06:30, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:25 = *06:25, *06:25 = *06:25, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:27 = *06:27, *06:27 = *06:27, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:32 = *06:32, *06:32 = *06:32, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:26 = *06:26, *06:26 = *06:26, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:24 = *06:24, *06:24 = *06:24, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:16N = *06:16N, *06:16N = *06:16N, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:15 = *06:15, *06:15 = *06:15, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:14 = *06:02:01:01, *06:55 = *06:14, *06:55 = *06:55, *06:55 = *06:55, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:13 = *06:13, *06:13 = *06:13, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:12 = *06:12, *06:12 = *06:12, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:11 = *06:11, *06:11 = *06:11, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:10 = *06:10, *06:10 = *06:10, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:17 = *06:17, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:08 = *06:08, *06:08 = *06:08, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:07 = *06:07, *06:07 = *06:07, *06:72
++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:67 = *06:67, *06:67 = *06:67, *06:72
-++-----	-----	-----	-----	-----	+-----	*06:03:01, *06:76:01 = *06:03:01, *06:76:02



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++-----	-----	-----	-----	-----	++-----	*06:02:01:01, *06:76:01 = *06:72, *06:76:01
++-----	-----	-----	-----	-----	-----	*06:02:01:01, *06:47 = *06:41, *06:43 = *06:41, *06:47 = *06:43,
						*06:47 = *06:47, *06:47 = *06:47, *06:72
++-----	-----	-----	-----	-----	-----	*06:40, *06:83 = *06:42, *06:83
++-----	-----	-----	-----	-----	-----	*06:40, *06:77 = *06:42, *06:77
++-----	-----	-----	-----	-----	-----	*06:40, *06:76:02 = *06:42, *06:76:02
++-----	-----	-----	-----	-----	-----	*06:40, *06:53:01 = *06:42, *06:53:01
++-----	-----	-----	-----	-----	-----	*06:03:02, *06:40 = *06:03:02, *06:42
++-----	-----	-----	-----	-----	-----	*06:40, *06:54 = *06:42, *06:54
++-----	-----	-----	-----	-----	-----	*06:40, *06:50 = *06:42, *06:50
++-----	-----	-----	-----	-----	-----	*06:40, *06:70 = *06:42, *06:70
++-----	-----	-----	-----	-----	-----	*06:40, *06:49N = *06:42, *06:49N
++-----	-----	-----	-----	-----	-----	*06:40, *06:57 = *06:42, *06:57
++-----	-----	-----	-----	-----	-----	*06:40, *06:46N = *06:42, *06:46N
++-----	-----	-----	-----	-----	-----	*06:40, *06:60 = *06:42, *06:60
++-----	-----	-----	-----	-----	-----	*06:40, *06:66 = *06:42, *06:66
++-----	-----	-----	-----	-----	-----	*06:40, *06:45 = *06:42, *06:45
++-----	-----	-----	-----	-----	-----	*06:40, *06:44 = *06:42, *06:44
++-----	-----	-----	-----	-----	-----	*06:40, *06:43 = *06:42, *06:43
++-----	-----	-----	-----	-----	-----	*06:40, *06:41 = *06:41, *06:42
++-----	-----	-----	-----	-----	-----	*06:39, *06:40 = *06:39, *06:42
++-----	-----	-----	-----	-----	-----	*06:38, *06:40 = *06:38, *06:42
++-----	-----	-----	-----	-----	-----	*06:34, *06:83 = *06:35, *06:83
++-----	-----	-----	-----	-----	-----	*06:34, *06:77 = *06:35, *06:77
++-----	-----	-----	-----	-----	-----	*06:34, *06:76:02 = *06:35, *06:76:02
++-----	-----	-----	-----	-----	-----	*06:34, *06:53:01 = *06:35, *06:53:01
++-----	-----	-----	-----	-----	-----	*06:03:02, *06:34 = *06:03:02, *06:35
++-----	-----	-----	-----	-----	-----	*06:34, *06:54 = *06:35, *06:54
++-----	-----	-----	-----	-----	-----	*06:34, *06:50 = *06:35, *06:50
++-----	-----	-----	-----	-----	-----	*06:34, *06:70 = *06:35, *06:70
++-----	-----	-----	-----	-----	-----	*06:34, *06:49N = *06:35, *06:49N
++-----	-----	-----	-----	-----	-----	*06:34, *06:57 = *06:35, *06:57
++-----	-----	-----	-----	-----	-----	*06:34, *06:46N = *06:35, *06:46N
++-----	-----	-----	-----	-----	-----	*06:34, *06:60 = *06:35, *06:60
++-----	-----	-----	-----	-----	-----	*06:34, *06:66 = *06:35, *06:66
++-----	-----	-----	-----	-----	-----	*06:34, *06:45 = *06:35, *06:45
++-----	-----	-----	-----	-----	-----	*06:34, *06:44 = *06:35, *06:44
++-----	-----	-----	-----	-----	-----	*06:34, *06:43 = *06:35, *06:43
++-----	-----	-----	-----	-----	-----	*06:34, *06:41 = *06:35, *06:41
++-----	-----	-----	-----	-----	-----	*06:34, *06:40 = *06:34, *06:42 = *06:35, *06:42
++-----	-----	-----	-----	-----	-----	*06:34, *06:39 = *06:35, *06:39
++-----	-----	-----	-----	-----	-----	*06:34, *06:38 = *06:35, *06:38
++-----	-----	-----	-----	-----	-----	*06:31, *06:40 = *06:31, *06:42
++-----	-----	-----	-----	-----	-----	*06:31, *06:34 = *06:31, *06:35
++-----	-----	-----	-----	-----	-----	*06:30, *06:40 = *06:30, *06:42
++-----	-----	-----	-----	-----	-----	*06:30, *06:34 = *06:30, *06:35
++-----	-----	-----	-----	-----	-----	*06:25, *06:40 = *06:25, *06:42
++-----	-----	-----	-----	-----	-----	*06:25, *06:34 = *06:25, *06:35
++-----	-----	-----	-----	-----	-----	*06:27, *06:40 = *06:27, *06:42
++-----	-----	-----	-----	-----	-----	*06:27, *06:34 = *06:27, *06:35
++-----	-----	-----	-----	-----	-----	*06:02:01:01, *06:28 = *06:28, *06:28 = *06:28, *06:32 = *06:28,
						*06:72 = *06:28, *06:76:02 = *06:32, *06:76:02
++-----	-----	-----	-----	-----	-----	*06:32, *06:40 = *06:32, *06:42
++-----	-----	-----	-----	-----	-----	*06:32, *06:34 = *06:32, *06:35
++-----	-----	-----	-----	-----	-----	*06:26, *06:40 = *06:26, *06:42
++-----	-----	-----	-----	-----	-----	*06:26, *06:34 = *06:26, *06:35
++-----	-----	-----	-----	-----	-----	*06:24, *06:40 = *06:24, *06:42
++-----	-----	-----	-----	-----	-----	*06:24, *06:34 = *06:24, *06:35
++-----	-----	-----	-----	-----	-----	*06:16N, *06:40 = *06:16N, *06:42
++-----	-----	-----	-----	-----	-----	*06:16N, *06:34 = *06:16N, *06:35
++-----	-----	-----	-----	-----	-----	*06:15, *06:40 = *06:15, *06:42
++-----	-----	-----	-----	-----	-----	*06:15, *06:34 = *06:15, *06:35
++-----	-----	-----	-----	-----	-----	*06:14, *06:83 = *06:55, *06:83



101.614-12 – including *Taq* pol., IFU-01
101.614-12u– without *Taq* pol., IFU-02

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Lot-specific information

++-----	-----+--	-----	-----	-----	---+-----	*06:14, *06:77 = *06:55, *06:77
++-----	-----+--	-----	-----	-----	---+-----	*06:14, *06:76:02 = *06:55, *06:76:02
++-----	-----+--	-----	-----	-----	---+-----	*06:14, *06:53:01 = *06:53:01, *06:55
++-----	-----+--	-----	-----	-----	+-----	*06:03:02, *06:14 = *06:03:02, *06:55
++-----	-----+--	-----	-----	-----	-----+	*06:14, *06:54 = *06:54, *06:55
++-----	-----+--	-----	-----	-----	-----+	*06:14, *06:50 = *06:50, *06:55
++-----	-----+--	-----	-----	-----	-----+	*06:14, *06:70 = *06:55, *06:70
++-----	-----+--	-----	-----	-----	-----+	*06:14, *06:49N = *06:49N, *06:55
++-----	-----+--	-----	-----	-----	-----+	*06:14, *06:57 = *06:55, *06:57
++-----	-----+--	-----	-----	-----	-----+	*06:14, *06:46N = *06:46N, *06:55
++-----	-----+--	-----	-----	-----	+-----	*06:14, *06:60 = *06:55, *06:60
++-----	-----+--	-----	-----	-----	-----+	*06:14, *06:66 = *06:55, *06:66
++-----	-----+--	-----	-----	-----	-----+	*06:14, *06:45 = *06:45, *06:55
++-----	-----+--	-----	-----	-----	-----+	*06:14, *06:44 = *06:44, *06:55
++-----	-----+--	-----	-----	-----	-----+	*06:14, *06:43 = *06:43, *06:55
++-----	-----+--	-----	-----	-----	-----+	*06:14, *06:41 = *06:41, *06:55
++-----	-----+--	-----	-----	-----	---+-----	*06:14, *06:42 = *06:40, *06:55 = *06:42, *06:55
++-----	-----+--	-----	-----	-----	---+-----	*06:14, *06:39 = *06:39, *06:55
++-----	-----+--	-----	-----	-----	+-----	*06:14, *06:38 = *06:38, *06:55
++-----	-----+--	-----	-----	-----	-----+	*06:14, *06:34 = *06:34, *06:55 = *06:35, *06:55
++-----	-----+--	-----	-----	-----	-----+	*06:14, *06:31 = *06:31, *06:55
++-----	-----+--	-----	-----	-----	-----+	*06:14, *06:30 = *06:30, *06:55
++-----	-----+--	-----	-----	-----	-----+	*06:14, *06:25 = *06:25, *06:55
++-----	-----+--	-----	-----	-----	-----+	*06:14, *06:27 = *06:27, *06:55
++-----	-----+--	-----	-----	-----	-----+	*06:14, *06:32 = *06:32, *06:55
++-----	-----+--	-----	-----	-----	-----+	*06:14, *06:26 = *06:26, *06:55
++-----	-----+--	-----	-----	-----	-----+	*06:14, *06:24 = *06:24, *06:55
++-----	-----+--	-----	-----	-----	-----+	*06:14, *06:16N = *06:16N, *06:55
++-----	-----+--	-----	-----	-----	-----+	*06:14, *06:15 = *06:15, *06:55
++-----	-----+--	-----	-----	-----	-----+	*06:13, *06:40 = *06:13, *06:42
++-----	-----+--	-----	-----	-----	-----+	*06:13, *06:34 = *06:13, *06:35
++-----	-----+--	-----	-----	-----	-----+	*06:02:01:01, *06:59 = *06:13, *06:24 = *06:13, *06:59 = *06:24, *06:59 = *06:59, *06:59 = *06:59, *06:72
++-----	-----+--	-----	-----	-----	-----+	*06:13, *06:14 = *06:13, *06:55
++-----	-----+--	-----	-----	-----	-----+	*06:02:01:01, *06:20 = *06:12, *06:20 = *06:20, *06:20 = *06:20, *06:72
++-----	-----+--	-----	-----	-----	-----+	*06:12, *06:40 = *06:12, *06:42
++-----	-----+--	-----	-----	-----	-----+	*06:12, *06:34 = *06:12, *06:35
++-----	-----+--	-----	-----	-----	-----+	*06:12, *06:14 = *06:12, *06:55
++-----	-----+--	-----	-----	-----	-----+	*06:11, *06:40 = *06:11, *06:42
++-----	-----+--	-----	-----	-----	-----+	*06:11, *06:34 = *06:11, *06:35
++-----	-----+--	-----	-----	-----	-----+	*06:11, *06:14 = *06:11, *06:55
++-----	-----+--	-----	-----	-----	-----+	*06:10, *06:40 = *06:10, *06:42
++-----	-----+--	-----	-----	-----	-----+	*06:10, *06:34 = *06:10, *06:35
++-----	-----+--	-----	-----	-----	-----+	*06:10, *06:14 = *06:10, *06:55
++-----	-----+--	-----	-----	-----	-----+	*06:02:01:01, *06:22 = *06:10, *06:11 = *06:10, *06:22 = *06:11, *06:22 = *06:22, *06:22 = *06:22, *06:72
++-----	-----+--	-----	-----	-----	-----+	*06:17, *06:40 = *06:17, *06:42
++-----	-----+--	-----	-----	-----	-----+	*06:02:01:01, *06:09 = *06:09, *06:09 = *06:09, *06:17 = *06:09, *06:34 = *06:09, *06:35 = *06:09, *06:72 = *06:17, *06:34 = *06:17, *06:35
++-----	-----+--	-----	-----	-----	-----+	*06:14, *06:17 = *06:17, *06:55
++-----	-----+--	-----	-----	-----	-----+	*06:08, *06:40 = *06:08, *06:42
++-----	-----+--	-----	-----	-----	-----+	*06:08, *06:34 = *06:08, *06:35
++-----	-----+--	-----	-----	-----	-----+	*06:08, *06:14 = *06:08, *06:55
++-----	-----+--	-----	-----	-----	-----+	*06:02:01:01, *06:19 = *06:07, *06:19 = *06:07, *06:66 = *06:19, *06:19 = *06:19, *06:66 = *06:19, *06:72
++-----	-----+--	-----	-----	-----	-----+	*06:07, *06:40 = *06:07, *06:42
++-----	-----+--	-----	-----	-----	-----+	*06:07, *06:34 = *06:07, *06:35
++-----	-----+--	-----	-----	-----	-----+	*06:07, *06:14 = *06:07, *06:55
++-----	-----+--	-----	-----	-----	-----+	*06:40, *06:67 = *06:42, *06:67
++-----	-----+--	-----	-----	-----	-----+	*06:34, *06:67 = *06:35, *06:67
++-----	-----+--	-----	-----	-----	-----+	*06:14, *06:67 = *06:55, *06:67



101.614-12 – including *Taq* pol., IFU-01
101.614-12u– without *Taq* pol., IFU-02

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Lot-specific information

++-+---	+-----	-----	-----	-----	-----	*06:02:01:01, *06:23 = *06:17, *06:23 = *06:17, *06:67 = *06:23, *06:23 = *06:23, *06:67 = *06:23, *06:72
++-+---	-----	-----	-----	-----	-----	*06:02:01:01, *06:05 = *06:05, *06:67 = *06:06, *06:67
+++-----	-----	-----	-----	-----	+-----	*06:02:01:01, *06:03:01 = *06:03:01, *06:72
+++-+---	-----	-----	-----	-----	-----	*06:02:01:01, *06:18 = *06:18, *06:18 = *06:18, *06:67 = *06:18, *06:72
++-----	-----	-----	--+-----	-----	++-----	*06:40, *06:76:01 = *06:42, *06:76:01
++-----	-----	-----	--+++---	-----	-----	*06:40, *06:47 = *06:42, *06:47
++-----	-----	-----	-----	-----	++-----	*06:34, *06:76:01 = *06:35, *06:76:01
++-----	-----	-----	-----	-----	-----	*06:34, *06:47 = *06:35, *06:47
++-----	-----	-----	-----	-----	++-----	*06:03:02, *06:28 = *06:28, *06:76:01 = *06:32, *06:76:01
++-----	-----	-----	-----	-----	-----	*06:28, *06:40 = *06:28, *06:42
++-----	-----	-----	-----	-----	-----	*06:28, *06:34 = *06:28, *06:35
++-----	-----	-----	-----	-----	++-----	*06:14, *06:76:01 = *06:55, *06:76:01
++-----	-----	-----	-----	-----	-----	*06:14, *06:47 = *06:47, *06:55
++-----	-----	-----	-----	-----	-----	*06:14, *06:28 = *06:28, *06:55
++-----	-----	-----	-----	-----	-----	*06:40, *06:59 = *06:42, *06:59
++-----	-----	-----	-----	-----	-----	*06:34, *06:59 = *06:35, *06:59
++-----	-----	-----	-----	-----	-----	*06:14, *06:59 = *06:55, *06:59
++-----	-----	-----	-----	-----	-----	*06:20, *06:40 = *06:20, *06:42
++-----	-----	-----	-----	-----	-----	*06:20, *06:34 = *06:20, *06:35
++-----	-----	-----	-----	-----	-----	*06:14, *06:20 = *06:20, *06:55
++-----	-----	-----	-----	-----	-----	*06:22, *06:40 = *06:22, *06:42
++-----	-----	-----	-----	-----	-----	*06:22, *06:34 = *06:22, *06:35
++-----	-----	-----	-----	-----	-----	*06:14, *06:22 = *06:22, *06:55
++-----	-----	-----	-----	-----	-----	*06:09, *06:40 = *06:09, *06:42
++-----	-----	-----	-----	-----	-----	*06:09, *06:14 = *06:09, *06:55
++-----	-----	-----	-----	-----	-----	*06:19, *06:40 = *06:19, *06:42
++-----	-----	-----	-----	-----	-----	*06:19, *06:34 = *06:19, *06:35
++-----	-----	-----	-----	-----	-----	*06:14, *06:19 = *06:19, *06:55
++-----	-----	-----	-----	-----	-----	*06:23, *06:40 = *06:23, *06:42
++-----	-----	-----	-----	-----	-----	*06:09, *06:23 = *06:09, *06:67 = *06:23, *06:34 = *06:23, *06:35
++-----	-----	-----	-----	-----	-----	*06:14, *06:23 = *06:23, *06:55
++-----	-----	-----	-----	-----	-----	*06:05, *06:17 = *06:05, *06:23 = *06:06, *06:23
++-----	-----	-----	-----	-----	-----	*06:03:01, *06:40 = *06:03:01, *06:42
++-----	-----	-----	-----	-----	-----	*06:03:01, *06:34 = *06:03:01, *06:35
++-----	-----	-----	-----	-----	-----	*06:03:01, *06:14 = *06:03:01, *06:55
++-----	-----	-----	-----	-----	-----	*06:03:01, *06:18 = *06:03:01, *06:67 = *06:03:02, *06:18
++-----	-----	-----	-----	-----	-----	*06:18, *06:40 = *06:18, *06:42
++-----	-----	-----	-----	-----	-----	*06:18, *06:34 = *06:18, *06:35
++-----	-----	-----	-----	-----	-----	*06:14, *06:18 = *06:18, *06:55
++-----	-----	-----	-----	-----	-----	*06:17, *06:18 = *06:18, *06:23
++-----	-----	-----	-----	-----	-----	*06:05, *06:18 = *06:06, *06:18

- *06:02:01:01 = *06:02:01:01-06:02:01:02, 06:02:03-06:02:25 and 06:48, 06:51-06:52, 06:56, 06:61-06:64, 06:68, 06:71, 06:74-06:75, 06:78, 06:80, 06:82 and 06:84-06:96
- *06:07 = *06:07 and 06:33
- *06:16N = *06:16N and 06:21
- *06:24 = *06:24 and 06:37
- *06:25 = *06:25 and 06:36
- *06:27 = *06:27 and 06:29
- *06:46N = *06:46N and 06:65
- *06:53:01 = *06:53:01-06:53:02
- *06:57 = *06:57 and 06:58
- *06:60 = *06:60 and 06:69
- *06:70 = *06:70 and 06:73



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Lot-specific information
SPECIFICITY TABLE

HLA-C*06 SSP subtyping

Specificities and sizes of the PCR products of the 47 primer mixes used for
 HLA-C*06 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-C*06 alleles ³	Other amplified HLA Class I alleles ⁴
1	240 bp	800 bp	*06:02:01:01-06:02:01:02, 06:02:03-06:02:25, 06:04-06:16N, 06:18-06:75, 06:78-06:96	*03:39, 03:67, 04:42, 05:43, 08:37, 12:16, 16:21
2	220 bp	800 bp	*06:02:01:01-06:02:01:02, 06:02:03-06:03:02, 06:07-06:13, 06:15-06:34, 06:36-06:39, 06:41-06:71, 06:73-06:78, 06:80, 06:82-06:96	*01:04, 01:09, 02:05, 02:17, 12:03:01:01-12:07, 12:11-12:13, 12:15, 12:23, 12:25-12:26, 12:28-12:29, 12:31-12:35, 12:37-12:39N, 12:42Q-12:43, 12:45-12:48, 12:50-12:55, 12:57-12:63, 12:65-12:66, 12:70-12:71, 12:75-12:79, 12:81-12:82, 12:87-12:94, 14:16, 16:04:01, 16:29, 16:33, 16:42, 16:55
3	135 bp	1070 bp	*06:03:01, 06:18	*02:02:13, 03:02:01-03:04:14, 03:04:16-03:04:24, 03:04:27-03:17, 03:19-03:38:02, 03:40:01-03:64:01, 03:65-03:66, 03:67 ^w , 03:68-03:98, 03:100-03:117, 03:119-03:136, 03:138-03:143, 03:146-03:155, 03:157-03:165, 03:167-03:169, 03:171, 03:173-03:181, 03:183-03:185, 07:96:01-07:96:02, 07:272, 15:02:10, 15:43
4	250 bp	1070 bp	*06:04	*01:22, 01:35, 05:11, 05:17, 05:27, 05:68, 05:79, 08:01:01-08:01:09, 08:03:01-08:04:03, 08:06, 08:08-08:11, 08:13-08:14, 08:16:01-08:16:02, 08:20-08:22, 08:24, 08:26N, 08:36N, 08:38-08:42, 08:44, 08:46, 08:50, 08:54, 08:56-08:61, 08:65-08:66, 08:72, 12:14:01-12:14:02, 12:18:01-12:18:02, 12:20, 12:83, 14:06, 14:15, 15:02:01-15:07, 15:09-15:13, 15:15-15:19, 15:21-15:24, 15:26-15:50, 15:52-15:66, 16:35, 16:40, 16:48, 17:01:01:01-17:16, 17:18-17:19, B*58:02

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5⁷	165 bp, 220 bp	800 bp	*06:05, 06:18, 06:23, 06:67	*01:04, 01:09, 02:21, 04:129, 05:01:01:01- 05:01:26, 05:03-05:28, 05:30-05:47, 05:49-05:87, 08:10, 12:21, 12:33, 17:05
6	250 bp	1070 bp	*06:05-06:06	*01:02:01-01:03, 01:05-01:08, 01:10- 01:20, 01:23-01:34, 01:36-01:75, 05:01:01:01-05:01:26, 05:03-05:07N, 05:09:01-05:10, 05:12-05:16, 05:18:01- 05:26, 05:28-05:50, 05:53-05:61, 05:63- 05:67, 05:69, 05:71-05:78, 05:80-05:87, 08:02:01-08:02:09, 08:05, 08:07, 08:12, 08:15:01-08:15:02, 08:17-08:19, 08:23, 08:25, 08:28, 08:30, 08:32-08:35, 08:37, 08:43, 08:45, 08:47-08:49, 08:51-08:53, 08:55N, 08:62-08:63, 08:67-08:71, 08:73- 08:74, 12:09, 12:24, 12:85, 14:02:01- 14:05, 14:07N-14:14, 14:17-14:49, 15:08, 18:01-18:02, 18:04-18:06
7^{5,8}	110 bp, 185 bp, 235 bp	1070 bp	*06:07, 06:19, 06:33	
8	240 bp	1070 bp	*06:08	*01:10, 02:05, 02:17, 14:25, 16:29, 16:50
9⁹	165 bp, 210 bp, 435 bp	1070 bp	*06:09, 06:17, 06:23	*01:04, 01:09, 02:22, 04:94:01-04:94:02, 05:08, 05:52, 07:07, 07:09, 07:76, 08:27, 08:29, 08:31, 12:31, 18:01-18:06, B*15:137
10	190 bp	800 bp	*06:10, 06:22	*07:107, 07:224, 16:31, B*15:193
11¹⁰	130 bp, 185 bp	1070 bp	*06:11, 06:22	*07:01:13, 07:04:01-07:04:08, 07:11- 07:12, 07:45, 07:63, 07:68, 07:101, 07:107, 07:139, 07:142, 07:181, 07:199:01-07:199:02, 07:224, 07:272, 12:03:09, 16:31, B*15:193
12^{6,11}	205 bp, 275 bp	1070 bp	*06:12, 06:20	*01:32, 02:56, 03:102, 07:81, 07:168, 12:50
13¹²	155 bp, 210 bp	1070 bp	*06:13, 06:59	
14¹³	225 bp, 305 bp	1070 bp	*06:14, 06:55	*03:32, 03:45, 03:136, 04:80, 04:100, 07:10, 07:43, 07:196, 15:25, 15:62, B*35:178
15	360 bp	800 bp	*06:15	
16^{6,14}	235 bp, 340 bp	1070 bp	*06:16N, 06:21	
17^{6,15}	160 bp, 220 bp	1070 bp	*06:24, 06:37, 06:59	*01:20
18	220 bp	1070 bp	*06:26	
19^{5,16}	85 bp, 160 bp	800 bp	*06:28, 06:32	*02:14, 03:67, 04:42, 05:43, 07:20, 07:73, 07:172, 08:37, 15:23, 16:21, 18:04,

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Lot-specific information

		B*08:56:01-08:56:02, B*15:142, B*35:218, B*51:68, B*57:49		
20 ^{5,17}	115 bp, 275 bp	1070 bp	*06:27, 06:29	*07:134, 16:47
21 ¹⁸	190 bp, 380 bp	1070 bp	*06:25, 06:36	*04:81, 12:56
22	170 bp	1070 bp	*06:30	*02:02:13, 07:181, 12:03:09
23	205 bp	1070 bp	*06:31	*16:04:01, 16:29, 16:33, 16:42, 16:55
24 ¹⁹	160 bp, 210 bp	1070 bp	*06:09, 06:34- 06:35	*02:22, 02:47, 04:94:01-04:94:02, 05:08, 05:52, 07:138 ^w , 08:27, 08:29, 08:31, 12:31, 18:03, B*13:31, B*13:41, B*15:32^w, B*15:58, B*15:73, B*15:137, B*39:36, B*55:21
25 ⁵	85 bp	1070 bp	*06:38	
26	130 bp	1070 bp	*06:39	
27 ^{6,20}	190 bp, 225 bp	1070 bp	*06:40, 06:42	*14:29, B*39:79
28 ^{5,21}	90 bp, 210 bp	1070 bp	*06:41, 06:47	*12:11, 12:32
29 ²²	175 bp, 210 bp	1070 bp	*06:43, 06:47	*12:11, A*26:79, B*15:207
30 ⁵	100 bp	1070 bp	*06:44	*07:01:13
31	155 bp	1070 bp	*06:45	
32 ²³	185 bp, 205 bp	1070 bp	*06:19, 06:66	
33 ^{5,24}	105 bp, 245 bp	1070 bp	*06:60, 06:69	
34	275 bp	1070 bp	*06:20	*01:32, 02:56, 03:102, 07:81, 07:168, 12:50
35 ²⁵	230 bp, 380 bp	1070 bp	*06:46N, 06:65	
36 ^{5,26}	120 bp, 215 bp	1070 bp	*06:57-06:58	
37	205 bp	1070 bp	*06:49N	
38 ^{5,27}	120 bp, 470 bp	1070 bp	*06:70, 06:73	*02:02:13, 03:171, 04:144, 08:20, 08:40
39	290 bp	1070 bp	*06:50	*02:20, 12:53
40	275 bp	1070 bp	*06:54	
41	155 bp	1070 bp	*06:03:01- 06:03:02, 06:76:01	*02:02:13, 12:03:09, B*51:39
42	170 bp	1070 bp	*06:53:01- 06:53:02	
43	190 bp	1070 bp	*06:28, 06:76:01- 06:76:02	*02:12, 02:49, 02:55, 03:15, 03:27, 03:38:01-03:38:02, 03:69, 03:130, 03:136, 03:163, 04:01:01:01-04:01:28, 04:01:30- 04:01:48, 04:03-04:09N, 04:12 ^w , 04:13- 04:20, 04:23-04:35, 04:37-04:54, 04:56- 04:139, 04:141-04:144, 05:42, 05:46, 07:20, 07:64, 07:73, 07:92, 07:96:01- 07:96:02, 07:172, 08:05, 08:21, 08:25,

101.614-12 – including *Taq* pol., IFU-01
101.614-12u– without *Taq* pol., IFU-02

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Lot No.: **07S**

Lot-specific information

				12:02:01-12:04:02, 12:06-12:08, 12:10:01-12:15, 12:17-12:20, 12:22-12:32, 12:34-12:48, 12:50-12:70, 12:72-12:94, 14:04, 14:49, 15:03, 15:16, 15:25, 16:15:01-16:15:02, 16:25, 17:01:01:01- 17:01:07, 17:01:09-17:19, 18:04
44⁵	120 bp	1070 bp	*06:77	A*11:47, B*37:01:04, B*40:94, B*54:02
45	220 bp	1070 bp	*06:79N	
46	220 bp	1070 bp	*06:81	*02:37
47	210 bp	1070 bp	*06:83	

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-C*06 SSP typings. When the primers in a primer mix can give rise to HLA-specific PCR products of more than one length this is indicated if the size difference is more than 20 base pairs. Size differences of 20 base pairs or less are not given. For high resolution SSP kits the respective lengths of the HLA-specific PCR product(s) are given for the alleles amplified by these primer mixes.

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-C*06 subtyping.

In addition, wells number 2, 5, 10, 15 and 19 contain the primer pair giving rise to the shorter, 800 bp, internal positive control in order to allow kit identification.

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

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

⁴Due to the sharing of sequence motifs between HLA-C alleles non-HLA-C*06 alleles will be amplified by primer mixes 1 to 6, 8 to 12, 14, 17, 19 to 24, 27 to 30, 34, 38, 39, 41, 43 and 46. In addition, the B*58:02 allele will be amplified by primer mix 4, the B*15:137 allele will be amplified by the primer mix 9, the B*15:193 allele will be amplified by the primer mix 10 and 11, the B*35:178 allele will be amplified by the primer mix 14, the B*08:56:01-08:56:02, B*15:142, B*35:218, B*51:68 and B*57:49 alleles will be amplified by primer mix 19, the B*13:31, B*13:41, B*15:32^w, B*15:58, B*15:73, B*15:137, B*39:36 and B*55:21 alleles will be amplified by primer mix 24, the B*39:79 allele will be amplified by the primer mix 27, the A*26:79 and B*15:207 alleles will be amplified by the primer mix 29, the B*51:39 allele will be amplified by the primer mix 41 and the A*11:47, B*37:01:04 and B*54:02 alleles will be amplified by the primer mix 44.

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

⁶Primer mixes 12, 16, 17 and 27 have a tendency to giving rise to primer oligomer formation.

101.614-12 – including *Taq* pol., IFU-01
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Lot No.: 07S**Lot-specific information**

⁷Primer mix 5: Specific PCR fragment of 165 bp in the C*06:05 and 06:67 and in the C*04:129, 05:01:01:01-05:01:26, 05:03-05:28, 05:30-05:47, 05:49-05:87, 08:10, 12:21, 12:33 and 17:05 alleles. Specific PCR fragment of 220 bp in the C*06:18 and 06:23 and the C*01:04, 01:09 and 02:21 alleles.

⁸Primer mix 7: Specific PCR fragment of 110 bp in the C*06:07 allele. Specific PCR fragment of 185 bp in the C*06:19 allele. Specific PCR fragment of 235 bp in the C*06:33 allele.

⁹Primer mix 9: Specific PCR fragment of 165 bp in the C*06:09 and the C*02:22, 04:94:01-04:94:02, 05:08, 05:52, 08:27, 08:29, 08:31 and 12:31 alleles and in the B*15:137 allele. Specific PCR fragment of 210 bp in the C*06:23 and the C*01:04 and 01:09 alleles. Specific PCR fragment of 435 bp in the C*06:17 and the C*07:07, 07:09, 07:76, 18:01, 18:02, 18:04, 18:05 and 18:06 alleles. Specific PCR fragments of 165 and 435 bp in the C*18:03 allele.

¹⁰Primer mix 11: Specific PCR fragment of 130 bp in the C*06:11 and the C*07:01:13, 07:04:01-07:04:08, 07:11-07:12, 07:45, 07:63, 07:68, 07:101, 07:139, 07:142, 07:181, 07:199:01-07:199:02, 07:272 and 12:03:09 alleles. Specific PCR fragment of 185 bp in the C*06:22 and the C*07:107, 07:224 and 16:31 alleles and in the B*15:193 allele.

¹¹Primer mix 12: Specific PCR fragment of 205 bp in the C*06:12 allele. Specific PCR fragment of 275 bp in the C*06:20 and in the C*01:32, 02:56, 03:102, 07:81, 07:168 and 12:50 alleles.

¹²Primer mix 13: Specific PCR fragment of 155 bp in the C*06:13 allele. Specific PCR fragment of 210 bp in the C*06:59 allele.

¹³Primer mix 14: Specific PCR fragment of 225 bp in the C*06:55 allele. Specific PCR fragment of 305 bp in the C*06:14 and in the C*03:32, 03:45, 03:136, 04:80, 04:100, 07:10, 07:43, 07:196, 15:25 and 15:62 alleles and in the B*35:178 allele.

¹⁴Primer mix 16: Specific PCR fragment of 235 bp in the C*06:16N allele. Specific PCR fragment of 340 bp in the C*06:21 allele.

¹⁵Primer mix 17: Specific PCR fragment of 160 bp in the C*06:37 and the C*01:20 alleles. Specific PCR fragment of 220 bp in the C*06:24 and 06:59 alleles.

¹⁶Primer mix 19: Specific PCR fragment of 85 bp in the C*06:28 and the C*02:14, 03:67, 04:42, 05:43, 07:20, 07:73, 07:172, 08:37, 15:23, 16:21 and 18:04 alleles and in the B B*08:56:01-08:56:02, B*15:142, B*35:218, B*51:68 and B*57:49 alleles. Specific PCR fragment of 160 bp in the C*06:32 allele.

¹⁷Primer mix 20: Specific PCR fragment of 115 bp in the C*06:29 and the C*07:134 alleles. Specific PCR fragment of 275 bp in the C*06:27 and the C*16:47 alleles.

¹⁸Primer mix 21: Specific PCR fragment of 190 bp in the C*06:36 and the C*12:56 alleles. Specific PCR fragment of 380 bp in the C*06:25 and the C*04:81 alleles.

¹⁹Primer mix 24: Specific PCR fragment of 160 bp in the C*06:09 and 06:34 and the C*02:22, 02:47, 04:94:01-04:94:02, 05:08, 05:52, 08:27, 08:29, 08:31, 12:31 and 18:03 alleles, and in the B*13:31, B*13:41, B*15:58, B*15:73, B*15:137, B*39:36 and B*55:21 alleles. Specific PCR fragment of 210 bp in the C*06:35 and the C*07:138^w and in the B*15:32^w alleles.

²⁰Primer mix 27: Specific PCR fragment of 190 bp in the C*06:42 and the C*14:29 alleles. Specific PCR fragment of 225 bp in the C*06:40 and in addition in the B*39:79 alleles.

²¹Primer mix 28: Specific PCR fragment of 90 bp in the C*06:41 and the C*12:32 alleles. Specific PCR fragment of 210 bp in the C*06:47 and the C*12:11 alleles.

²²Primer mix 29: Specific PCR fragment of 175 bp in the C*06:43 allele and in addition in the A*26:79 and in the B*15:207 alleles. Specific PCR fragment of 210 bp in the C*06:47 and the C*12:11 alleles.

²³Primer mix 32: Specific PCR fragment of 185 bp in the C*06:19 allele. Specific PCR fragment of 205 bp in the C*06:66 allele.

²⁴Primer mix 33: Specific PCR fragment of 105 bp in the C*06:60 allele. Specific PCR fragment of 245 bp in the C*06:69 allele.

²⁵Primer mix 35: Specific PCR fragment of 230 bp in the C*06:65 allele. Specific PCR fragment of 380 bp in the C*06:46N allele.

²⁶Primer mix 36: Specific PCR fragment of 120 bp in the C*06:57 allele. Specific PCR fragment of 215 bp in the C*06:58 allele.

²⁷Primer mix 38: Specific PCR fragment of 120 bp in the C*06:70 and the C*02:02:13 alleles. Specific PCR fragment of 470 bp in the C*06:73 and the C*03:171, 04:144, 08:20 and 08:40 alleles.

'w', may be weakly amplified.

101.614-12 – including *Taq* pol., IFU-01
 101.614-12u– without *Taq* pol., IFU-02

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Lot No.: **07S**

Lot-specific information

INTERPRETATION TABLE																								
HLA-C*06 SSP subtyping																								
Amplification patterns of the C*06:02 to C*06:96 alleles																								
	Well ¹⁷																							
	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.	240	220	135	250	165	250	110	240	165	190	130	205	155	225	360	235	160	220	85	115	190	170	205	160
PCR product(s)					220		185		210		185	275	210	305		340	220		160	275	380			210
Length of int.	800	800	1070	1070	800	1070	1070	1070	1070	800	1070	1070	1070	1070	800	1070	1070	1070	800	1070	1070	1070	1070	1070
pos. control ¹																								
5'-primer(s) ²	28	361	105	2 nd I	113	2 nd I	107	361	47	142	213	463	361	341	376	397	361	122	97	97	28	213	361	368
	5'-TCA ^{3'}	5'-AgT ^{3'}	5'-gCT ^{3'}	5'-CCA ^{3'}	5'-CCA ^{3'}	5'-CCA ^{3'}	5'-CgA ^{3'}	5'-AgT ^{3'}	5'-Agg ^{3'}	5'-TCC ^{3'}	5'-CCC ^{3'}	5'-TgA ^{3'}	5'-AgT ^{3'}	5'-ggA ^{3'}	5'-gCT ^{3'}	5'-gCT ^{3'}	5'-AgT ^{3'}	5'-CCT ^{3'}	5'-TCg ^{3'}	5'-TCg ^{3'}	5'-TCA ^{3'}	5'-CCC ^{3'}	5'-AgT ^{3'}	5'-gTC ^{3'}
		361	113		176		157		368	419	419	529		894		501				361	388			419
		5'-AgT ^{3'}	5'-CCA ^{3'}		5'-gCA ^{3'}		5'-TgA ^{3'}		5'-gTg ^{3'}	5'-gTC ^{3'}	5'-gTC ^{3'}	5'-AgA ^{3'}		5'-TgC ^{3'}		5'-..C ^{3'}				5'-AgT ^{3'}	5'-CCA ^{3'}			5'-gTT ^{3'}
					368		232		412															
					5'-gTg ^{3'}		5'-AgA ^{3'}		5'-ATA ^{3'}															
3'-primer(s) ³	97	538	201	539	302	538	302	559	312	302	302	3 rd I	475	353	3 rd I	3 rd I	479	302	142	172	239	341	527	538
	5'-gTC ^{3'}	5'-CCA ^{3'}	5'-CTC ^{3'}	5'-TCA ^{3'}	5'-ggT ^{3'}	5'-CCg ^{3'}	5'-ggT ^{3'}	5'-CTC ^{3'}	5'-AgT ^{3'}	5'-ggT ^{3'}	5'-ggC ^{3'}	5'-CTC ^{3'}	5'-ggT ^{3'}	5'-TgA ^{3'}	5'-CTC ^{3'}	5'-CTC ^{3'}	5'-CCA ^{3'}	5'-ggT ^{3'}	5'-TgC ^{3'}	5'-CAT ^{3'}	5'-gCT ^{3'}	5'-Cgg ^{3'}	5'-CCg ^{3'}	5'-CCA ^{3'}
					538				538	565	565		532	956			532		214	595	538			
					5'-CCA ^{3'}				5'-CCA ^{3'}	5'-CAT ^{3'}	5'-CAT ^{3'}		5'-CTg ^{3'}	5'-Cag ^{3'}			5'-CTg ^{3'}		5'-CCA ^{3'}	5'-CCA ^{3'}	5'-CCA ^{3'}			
					547																			
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



101.614-12 – including *Taq* pol., IFU-01
 101.614-12u– without *Taq* pol., IFU-02

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Lot No.: **07S**

Lot-specific information

Length of spec.	240	220	135	250	165	250	110	240	165	190	130	205	155	225	360	235	160	220	85	115	190	170	205	160
PCR product(s)					220		185		210		185	275	210	305		340	220		160	275	380			210
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-C allele ^{4,5}																								
*06:02:01:01- 06:02:01:02, 06:02:03- 06:02:25, 06:48, 06:51-06:52, 06:56, 06:61-06:64, 06:68, 06:71, 06:74- 06:75, 06:78, 06:80, 06:82, 06:84-06:96	1	2																						
*06:03:01		2	3																					
*06:03:02		2																						
*06:04	1			4																				
*06:05	1				5	6																		
*06:06	1					6																		
*06:07, 06:33 ⁸	1	2					7																	
*06:08	1	2						8																
*06:09	1	2							9															24
*06:10	1	2								10														
*06:11	1	2									11													
*06:12	1	2										12												
*06:13	1	2											13											
*06:14	1													14										
*06:15	1	2													15									
*06:16N, 06:21 ⁹	1	2														16								
*06:17		2							9															
*06:18	1	2	3		5																			
*06:19	1	2					7																	
*06:20	1	2										12												
*06:22	1	2								10	11													
*06:23	1	2			5				9															
*06:24, 06:37 ¹⁰	1	2															17							
*06:25, 06:36 ¹¹	1	2																			21			
*06:26	1	2																18						
*06:27, 06:29 ¹²	1	2																		20				
*06:28	1	2																		19				
*06:30	1	2																				22		
*06:31	1	2																					23	
*06:32	1	2																	19					
*06:34	1	2																						24
*06:35	1																							24
*06:38	1	2																						
*06:39	1	2																						
*06:40	1																							
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

101.614-12 – including *Taq* pol., IFU-01
 101.614-12u– without *Taq* pol., IFU-02

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Lot-specific information

85		130		190		90		175		100		155		185		105		275		230		120		205		120		290		275		155		170		190		120		220		220		210		Length of spec.	
				225		210		210						205		245				380		215				470																PCR product(s)					
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	Well No.																								
																						HLA-C allele ^{4,5}																									
																						*06:02:01:01-06:02:01:02, 06:02:03-06:02:25, 06:48, 06:51-06:52, 06:56, 06:61-06:64, 06:68, 06:71, 06:74-06:75, 06:78, 06:80, 06:82, 06:84-06:96																									
																						41																									
																						*06:03:01																									
																						41																									
																						*06:03:02																									
																						*06:04																									
																						*06:05																									
																						*06:06																									
																						*06:07, 06:33 ⁸																									
																						*06:08																									
																						*06:09																									
																						*06:10																									
																						*06:11																									
																						*06:12																									
																						*06:13																									
																						*06:14																									
																						*06:15																									
																						*06:16N, 06:21 ⁹																									
																						*06:17																									
																						*06:18																									
																						32																									
																						*06:19																									
																						34																									
																						*06:20																									
																						*06:22																									
																						*06:23																									
																						*06:24, 06:37 ¹⁰																									
																						*06:25, 06:36 ¹¹																									
																						*06:26																									
																						*06:27, 06:29 ¹²																									
																						43																									
																						*06:28																									
																						*06:30																									
																						*06:31																									
																						*06:32																									
																						*06:34																									
																						*06:35																									
																						25																									
																						*06:38																									
																						26																									
																						*06:39																									
																						27																									
																						*06:40																									
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	Well No.																								



101.614-12 – including *Taq* pol., IFU-01
 101.614-12u– without *Taq* pol., IFU-02

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Lot-specific information

Length of spec.	240	220	135	250	165	250	110	240	165	190	130	205	155	225	360	235	160	220	85	115	190	170	205	160
PCR product(s)					220		185		210		185	275	210	305		340	220		160	275	380			210
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
*06:41	1	2																						
*06:42	1	2																						
*06:43	1	2																						
*06:44	1	2																						
*06:45	1	2																						
*06:46N, 06:65¹³	1	2																						
*06:47	1	2																						
*06:49N	1	2																						
*06:50	1	2																						
*06:53:01-06:53:02	1	2																						
*06:54	1	2																						
*06:55	1	2												14										
*06:57, 06:58¹⁴	1	2																						
*06:59	1	2											13				17							
*06:60, 06:69¹⁵	1	2																						
*06:66	1	2																						
*06:67	1	2			5																			
*06:70, 06:73¹⁶	1	2																						
*06:72, 03:39, 12:16 ⁶	1																							
*06:76:01		2																						
*06:76:02, 12:03:01:01-12:03:08, 12:03:10-12:04:02, 12:06-12:07, 12:12-12:13, 12:15, 12:23, 12:25-12:26, 12:28-12:29, 12:34-12:35, 12:37-12:39N, 12:42Q-12:43, 12:45-12:48, 12:51-12:52, 12:54-12:55, 12:57-12:63, 12:65-12:66, 12:70, 12:75-12:79, 12:81-12:82, 12:87-12:94 ⁷		2																						
*06:77		2																						
*06:79N	1																							
*06:81	1																							
*06:83	1	2																						
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



101.614-12 – including *Taq* pol., IFU-01
 101.614-12u– without *Taq* pol., IFU-02

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Lot No.: **07S**

Lot-specific information

85	130	190	90	175	100	155	185	105	275	230	120	205	120	290	275	155	170	190	120	220	220	210	Length of spec.	
		225	210	210			205	245		380	215		470											PCR product(s)
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	Well No.	
			28																				*06:41	
		27																					*06:42	
				29																			*06:43	
					30																		*06:44	
						31																	*06:45	
										35													*06:46N, 06:65 ¹³	
			28	29																			*06:47	
												37											*06:49N	
														39									*06:50	
																	42						*06:53:01-06:53:02	
															40								*06:54	
																							*06:55	
											36												*06:57, 06:58 ¹⁴	
																							*06:59	
										33													*06:60, 06:69 ¹⁵	
							32																*06:66	
																							*06:67	
													38										*06:70, 06:73 ¹⁶	
																							*06:72, 03:39, 12:16 ⁶	
																41		43					*06:76:01	
																			43				*06:76:02, 12:03:01:01-12:03:08, 12:03:10-12:04:02, 12:06-12:07, 12:12-12:13, 12:15, 12:23, 12:25-12:26, 12:28-12:29, 12:34-12:35, 12:37-12:39N, 12:42Q-12:43, 12:45-12:48, 12:51-12:52, 12:54-12:55, 12:57-12:63, 12:65-12:66, 12:70, 12:75-12:79, 12:81-12:82, 12:87-12:94 ⁷	
																				44			*06:77	
																					45		*06:79N	
																						46	*06:81	
																						47	*06:83	
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	Well No.	



101.614-12 – including *Taq* pol., IFU-01
 101.614-12u– without *Taq* pol., IFU-02

Visit www.olerup-ssp.com for
 “Instructions for Use” (IFU)

Lot No.: **07S**

Lot-specific information

Length of spec.	240	220	135	250	165	250	110	240	165	190	130	205	155	225	360	235	160	220	85	115	190	170	205	160
PCR product(s)					220		185		210		185	275	210	305		340	220		160	275	380			210
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
*01:02:01-01:03, 01:05-01:08, 01:11-01:19, 01:23-01:31, 01:33-01:34, 01:36-01:75, 05:29:01-05:29:02, 05:48N, 08:02:01-08:02:09, 08:07, 08:12, 08:15:01-08:15:02, 08:17-08:19, 08:23, 08:28, 08:30, 08:32-08:35, 08:43, 08:45, 08:47-08:49, 08:51-08:53, 08:55N, 08:62-08:63, 08:67-08:71, 08:73-08:74, 12:09, 14:02:01-14:03, 14:05, 14:07N-14:14, 14:17-14:24:02, 14:26-14:28, 14:30-14:48, 15:08						6																		
*01:04, 01:09		2			5				9															
*01:10, 14:25						6		8																
*01:20						6											17							
*01:22, 01:35, 08:01:01-08:01:09, 08:03:01-08:04:03, 08:06, 08:08-08:09, 08:11, 08:13-08:14, 08:16:01-08:16:02, 08:22, 08:24, 08:26N, 08:36N, 08:38-08:39, 08:41-08:42, 08:44, 08:46, 08:50, 08:54, 08:56-08:61, 08:65-08:66, 08:72, 14:06, 14:15, 15:02:01-15:02:09, 15:02:11-15:02:15, 15:04-15:07, 15:09-15:13, 15:15, 15:17-15:19, 15:21-15:22, 15:24, 15:26-15:42, 15:44-15:50, 15:52-15:61, 15:63-15:66, 16:35, 16:40, 16:48, 17:01:08, B*58:02				4																				
*01:32						6						12												
*02:02:13			3																			22		
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



101.614-12 – including *Taq* pol., IFU-01
 101.614-12u– without *Taq* pol., IFU-02

Visit www.olerup-ssp.com for
 “Instructions for Use” (IFU)

Lot No.: **07S**

Lot-specific information

85	130	190	90	175	100	155	185	105	275	230	120	205	120	290	275	155	170	190	120	220	220	210	Length of spec.	
		225	210	210			205	245		380	215		470											PCR product(s)
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	Well No.	
																								*01:02:01-01:03, 01:05-01:08, 01:11-01:19, 01:23-01:31, 01:33-01:34, 01:36-01:75, 05:29:01-05:29:02, 05:48N, 08:02:01-08:02:09, 08:07, 08:12, 08:15:01-08:15:02, 08:17-08:19, 08:23, 08:28, 08:30, 08:32-08:35, 08:43, 08:45, 08:47-08:49, 08:51-08:53, 08:55N, 08:62-08:63, 08:67-08:71, 08:73-08:74, 12:09, 14:02:01-14:03, 14:05, 14:07N-14:14, 14:17-14:24:02, 14:26-14:28, 14:30-14:48, 15:08
																								*01:04, 01:09
																								*01:10, 14:25
																								*01:20
																								*01:22, 01:35, 08:01:01-08:01:09, 08:03:01-08:04:03, 08:06, 08:08-08:09, 08:11, 08:13-08:14, 08:16:01-08:16:02, 08:22, 08:24, 08:26N, 08:36N, 08:38-08:39, 08:41-08:42, 08:44, 08:46, 08:50, 08:54, 08:56-08:61, 08:65-08:66, 08:72, 14:06, 14:15, 15:02:01-15:02:09, 15:02:11-15:02:15, 15:04-15:07, 15:09-15:13, 15:15, 15:17-15:19, 15:21-15:22, 15:24, 15:26-15:42, 15:44-15:50, 15:52-15:61, 15:63-15:66, 16:35, 16:40, 16:48, 17:01:08, B*58:02
									34															*01:32
													38			41								*02:02:13
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	Well No.	



101.614-12 – including *Taq* pol., IFU-01
 101.614-12u– without *Taq* pol., IFU-02

Visit www.olerup-ssp.com for
 “Instructions for Use” (IFU)

Lot No.: **07S**

Lot-specific information

Length of spec.	240	220	135	250	165	250	110	240	165	190	130	205	155	225	360	235	160	220	85	115	190	170	205	160
PCR product(s)					220		185		210		185	275	210	305		340	220		160	275	380			210
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
*02:05, 02:17		2						8																
*02:12, 02:49, 02:55, 04:01:01:01-04:01:28, 04:01:30-04:01:48, 04:03-04:09N, 04:13- 04:20, 04:23-04:35, 04:37-04:41, 04:43- 04:54, 04:56-04:79, 04:82-04:93N, 04:95N- 04:99, 04:101-04:128, 04:130-04:139, 04:141- 04:143, 07:64, 07:92, 12:02:01-12:02:09, 12:08, 12:10:01- 12:10:02, 12:17, 12:19, 12:22, 12:27, 12:30, 12:36, 12:40-12:41, 12:44, 12:64, 12:67- 12:69, 12:72-12:74, 12:80N, 12:84N, 12:86, 16:15:01-16:15:02, 16:25, 17:17																								
*02:14, B*08:56:01- 08:56:02, B*15:142, B*35:218, B*51:68, B*57:49																			19					
*02:20																								
*02:21, 05:51Q, 05:62, 05:70, 12:21					5																			
*02:22, 08:27, 08:29, 08:31, 18:03, B*15:137									9															24
*02:37																								
*02:47, B*13:31, B*13:41, B*15:58, B*15:73, B*39:36, B*55:21																								24
*02:56, 07:81, 07:168												12												
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24



101.614-12 – including *Taq* pol., IFU-01
 101.614-12u– without *Taq* pol., IFU-02

Visit www.olerup-ssp.com for
 “Instructions for Use” (IFU)

Lot No.: **07S**

Lot-specific information

85	130	190	90	175	100	155	185	105	275	230	120	205	120	290	275	155	170	190	120	220	220	210	Length of spec.	
		225	210	210			205	245		380	215		470											PCR product(s)
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	Well No.	
																							*02:05, 02:17	
																							*02:12, 02:49, 02:55, 04:01:01:01-04:01:28, 04:01:30-04:01:48, 04:03-04:09N, 04:13- 04:20, 04:23-04:35, 04:37-04:41, 04:43- 04:54, 04:56-04:79, 04:82-04:93N, 04:95N- 04:99, 04:101-04:128, 04:130-04:139, 04:141- 04:143, 07:64, 07:92, 12:02:01-12:02:09, 12:08, 12:10:01- 12:10:02, 12:17, 12:19, 12:22, 12:27, 12:30, 12:36, 12:40-12:41, 12:44, 12:64, 12:67- 12:69, 12:72-12:74, 12:80N, 12:84N, 12:86, 16:15:01-16:15:02, 16:25, 17:17	
																		43					*02:14, B*08:56:01- 08:56:02, B*15:142, B*35:218, B*51:68, B*57:49	
														39									*02:20	
																							*02:21, 05:51Q, 05:62, 05:70, 12:21	
																							*02:22, 08:27, 08:29, 08:31, 18:03, B*15:137	
																					46		*02:37	
																							*02:47, B*13:31, B*13:41, B*15:58, B*15:73, B*39:36, B*55:21	
									34														*02:56, 07:81, 07:168	
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	Well No.	



101.614-12 – including *Taq* pol., IFU-01
 101.614-12u– without *Taq* pol., IFU-02

Visit www.olerup-ssp.com for
 “Instructions for Use” (IFU)

Lot No.: **07S**

Lot-specific information

Length of spec.	240	220	135	250	165	250	110	240	165	190	130	205	155	225	360	235	160	220	85	115	190	170	205	160
PCR product(s)					220		185		210		185	275	210	305		340	220		160	275	380			210
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
*03:02:01-03:04:14, 03:04:16-03:04:24, 03:04:27-03:14, 03:16- 03:17, 03:19-03:26, 03:28-03:31, 03:33- 03:37:02, 03:40:01- 03:44, 03:46-03:64:01, 03:65-03:66, 03:68, 03:70-03:98, 03:100- 03:101, 03:103-03:117, 03:119-03:129, 03:131- 03:135, 03:138-03:143, 03:146-03:155, 03:157- 03:162, 03:164-03:165, 03:167-03:169, 03:173- 03:181, 03:183-03:185			3																					
*03:15, 03:27, 03:38:01- 03:38:02, 03:69, 03:130, 03:163, 07:96:01- 07:96:02			3																					
*03:32, 03:45			3											14										
*03:67	1		w																19					
*03:102			3									12												
*03:136			3											14										
*03:171			3																					
*04:12																								
*04:42	1																		19					
*04:80, 04:100, 15:25														14										
*04:81, 12:56																						21		
*04:94:01-04:94:02									9															24
*04:129					5																			
*04:144																								
*05:01:01:01-05:01:26, 05:03-05:07N, 05:09:01- 05:10, 05:12-05:16, 05:18:01-05:26, 05:28, 05:30-05:41, 05:44:01- 05:45, 05:47, 05:49- 05:50, 05:53-05:61, 05:63-05:67, 05:69, 05:71-05:78, 05:80- 05:87					5	6																		
*05:08, 05:52					5				9															24
*05:11, 05:17, 05:27, 05:68, 05:79, 08:10				4	5																			
*05:42, 05:46					5	6																		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24



101.614-12 – including *Taq* pol., IFU-01
 101.614-12u– without *Taq* pol., IFU-02

Visit www.olerup-ssp.com for
 “Instructions for Use” (IFU)

Lot No.: **07S**

Lot-specific information

85	130	190	90	175	100	155	185	105	275	230	120	205	120	290	275	155	170	190	120	220	220	210	Length of spec.	
		225	210	210			205	245		380	215		470											PCR product(s)
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	Well No.	
																								*03:02:01-03:04:14, 03:04:16-03:04:24, 03:04:27-03:14, 03:16- 03:17, 03:19-03:26, 03:28-03:31, 03:33- 03:37:02, 03:40:01- 03:44, 03:46-03:64:01, 03:65-03:66, 03:68, 03:70-03:98, 03:100- 03:101, 03:103-03:117, 03:119-03:129, 03:131- 03:135, 03:138-03:143, 03:146-03:155, 03:157- 03:162, 03:164-03:165, 03:167-03:169, 03:173- 03:181, 03:183-03:185
																		43						*03:15, 03:27, 03:38:01- 03:38:02, 03:69, 03:130, 03:163, 07:96:01- 07:96:02
																								*03:32, 03:45
																								*03:67
									34															*03:102
																		43						*03:136
													38											*03:171
																		w						*04:12
																		43						*04:42
																		43						*04:80, 04:100, 15:25
																		43						*04:81, 12:56
																		43						*04:94:01-04:94:02
																		43						*04:129
													38					43						*04:144
																								*05:01:01:01-05:01:26, 05:03-05:07N, 05:09:01- 05:10, 05:12-05:16, 05:18:01-05:26, 05:28, 05:30-05:41, 05:44:01- 05:45, 05:47, 05:49- 05:50, 05:53-05:61, 05:63-05:67, 05:69, 05:71-05:78, 05:80- 05:87
																								*05:08, 05:52
																								*05:11, 05:17, 05:27, 05:68, 05:79, 08:10
																		43						*05:42, 05:46
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	Well No.	



101.614-12 – including *Taq* pol., IFU-01
 101.614-12u– without *Taq* pol., IFU-02

Visit www.olerup-ssp.com for
 “Instructions for Use” (IFU)

Lot No.: **07S**

Lot-specific information

Length of spec.	240	220	135	250	165	250	110	240	165	190	130	205	155	225	360	235	160	220	85	115	190	170	205	160
PCR product(s)					220		185		210		185	275	210	305		340	220		160	275	380			210
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
*05:43	1				5	6													19					
*07:01:13											11													
*07:04:01-07:04:08, 07:11-07:12, 07:45, 07:63, 07:68, 07:101, 07:139, 07:142, 07:199:01-07:199:02											11													
*07:07, 07:09, 07:76									9															
*07:10, 07:43, 07:196, <i>B*35:178</i>														14										
*07:20, 07:73, 07:172																			19					
*07:107, 07:224, 16:31, <i>B*15:193</i>										10	11													
*07:134, 16:47																				20				
*07:138, <i>B*15:32</i>																								w
*07:181											11											22		
*07:272			3								11													
*08:05, 08:25, 12:24, 12:85, 14:04, 14:49						6																		
*08:20, 08:40				4																				
*08:21, 12:14:01- 12:14:02, 12:18:01- 12:18:02, 12:20, 12:83, 15:03, 15:16, 17:01:01:01-17:01:07, 17:01:09-17:04, 17:06- 17:16, 17:18-17:19				4																				
*08:37	1					6													19					
*12:03:09		2									11											22		
*12:05, 12:71, 14:16		2																						
*12:11		2																						
*12:31		2							9															24
*12:32		2																						
*12:33		2			5																			
*12:50		2									12													
*12:53		2																						
*14:29						6																		
*15:02:10, 15:43			3	4																				
*15:23				4															19					
*15:62				4										14										
*16:04:01, 16:33, 16:42, 16:55		2																						23
*16:21	1																		19					
*16:29		2						8																23
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

101.614-12 – including *Taq* pol., IFU-01
 101.614-12u– without *Taq* pol., IFU-02

Visit www.olerup-ssp.com for
 “Instructions for Use” (IFU)

Lot No.: **07S**

Lot-specific information

85	130	190	90	175	100	155	185	105	275	230	120	205	120	290	275	155	170	190	120	220	220	210	Length of spec.	PCR product(s)
		225	210	210			205	245		380	215		470											
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	Well No.	
					30																			*05:43
																								*07:01:13
																								*07:04:01-07:04:08, 07:11-07:12, 07:45, 07:63, 07:68, 07:101, 07:139, 07:142, 07:199:01-07:199:02
																								*07:07, 07:09, 07:76
																								*07:10, 07:43, 07:196, <i>B</i> *35:178
																		43						*07:20, 07:73, 07:172
																								*07:107, 07:224, 16:31, <i>B</i> *15:193
																								*07:134, 16:47
																								*07:138, <i>B</i> *15:32
																								*07:181
																								*07:272
																			43					*08:05, 08:25, 12:24, 12:85, 14:04, 14:49
													38											*08:20, 08:40
																								*08:21, 12:14:01- 12:14:02, 12:18:01- 12:18:02, 12:20, 12:83, 15:03, 15:16, 17:01:01:01-17:01:07, 17:01:09-17:04, 17:06- 17:16, 17:18-17:19
																								*08:37
																41		43						*12:03:09
			28	29																				*12:05, 12:71, 14:16
																								*12:11
																								*12:31
			28																					*12:32
																								*12:33
									34										43					*12:50
														39					43					*12:53
		27																						*14:29
																								*15:02:10, 15:43
																								*15:23
																								*15:62
																								*16:04:01, 16:33, 16:42, 16:55
																								*16:21
																								*16:29
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	Well No.	



101.614-12 – including *Taq* pol., IFU-01101.614-12u– without *Taq* pol., IFU-02Visit www.olerup-ssp.com for

“Instructions for Use” (IFU)

Lot No.: **07S**

Lot-specific information

Length of spec.	240	220	135	250	165	250	110	240	165	190	130	205	155	225	360	235	160	220	85	115	190	170	205	160
PCR product(s)					220		185		210		185	275	210	305		340	220		160	275	380			210
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
*16:50								8																
*17:05				4	5																			
*18:01-18:02, 18:05-18:06						6			9															
*18:04						6			9										19					
<i>A*11:47, B*37:01:04, B*40:94, B*54:02</i>																								
<i>A*26:79, B*15:207</i>																								
<i>B*39:79</i>																								
<i>B*51:39</i>																								
HLA-C allele ^{4,5}																								
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-C*06 subtyping.

In addition, wells number 2, 5, 10, 15 and 19 contain the primer pair giving rise to the shorter, 800 bp, internal positive control in order to allow kit identification.

²The nucleotide position, in the 1st, 2nd, 3rd or 4th exons or the the 2nd intron, 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 the 2nd, 3rd or 5th exons 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.

⁴The sequence of the C*0601 allele has been shown to be identical to C*06:02.

The sequence of the C*060202 allele has been renamed to C*06:17.

⁵HLA-C*06 alleles in bold lettering are listed as confirmed alleles on the IMGT/HLA web page www.ebi.ac.uk/imgt/hla, release 3.11.0, January 2013.

⁶The HLA-C*06 primer set cannot separate the C*06:72 and the C*03:39 and 12:16 alleles. These alleles can be distinguished by the HLA-C low resolution kit and/or the HLA-C*03 and HLA-C*12 high resolution kit.

⁷The HLA-C*06 primer set cannot separate the C*06:76:02 and the 12:03:01:01-12:03:08, 12:03:10-12:04:02, 12:06-12:07, 12:12-12:13, 12:15, 12:23, 12:25-12:26, 12:28-12:29, 12:34-12:35, 12:37-12:39N, 12:42Q-12:43, 12:45-12:48, 12:51-12:52, 12:54-12:55, 12:57-12:63, 12:65-12:66, 12:70, 12:75-12:79, 12:81-12:82 and 12:87-12:94 alleles. These alleles can be distinguished by the HLA-C low resolution kit and/or the and HLA-C*12 high resolution kit.

⁸The C*06:07 and C*06:33 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 7.

⁹The C*06:16N and C*06:21 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 16.

¹⁰The C*06:24 and C*06:37 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 17.

¹¹The C*06:25 and C*06:36 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 21.

101.614-12 – including *Taq* pol., IFU-01
101.614-12u– without *Taq* pol., IFU-02

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Lot No.: 07S**Lot-specific information**

Primer mix 17: Specific PCR fragment of 160 bp in the C*06:37 and the C*01:20 alleles. Specific PCR fragment of 220 bp in the C*06:24 and 06:59 alleles.

Primer mix 19: Specific PCR fragment of 85 bp in the C*06:28 and the C*02:14, 03:67, 04:42, 05:43, 07:20, 07:73, 07:172, 08:37, 15:23, 16:21 and 18:04 alleles and in addition in the B B*08:56:01-08:56:02, B*15:142, B*35:218, B*51:68 and B*57:49 alleles. Specific PCR fragment of 160 bp in the C*06:32 allele.

Primer mix 20: Specific PCR fragment of 115 bp in the C*06:29 and the C*07:134 alleles. Specific PCR fragment of 275 bp in the C*06:27 and the C*16:47 alleles.

Primer mix 21: Specific PCR fragment of 190 bp in the C*06:36 and the C*12:56 alleles. Specific PCR fragment of 380 bp in the C*06:25 and the C*04:81 alleles.

Primer mix 24: Specific PCR fragment of 160 bp in the C*06:09 and 06:34 and the C*02:22, 02:47, 04:94:01-04:94:02, 05:08, 05:52, 08:27, 08:29, 08:31, 12:31 and 18:03 alleles, and in addition in the B*13:31, B*13:41, B*15:58, B*15:73, B*15:137, B*39:36 and B*55:21 alleles. Specific PCR fragment of 210 bp in the C*06:35 and the C*07:138^w and in the B*15:32^w alleles.

Primer mix 27: Specific PCR fragment of 190 bp in the C*06:42 and the C*14:29 alleles. Specific PCR fragment of 225 bp in the C*06:40 and in addition in the B*39:79 alleles.

Primer mix 28: Specific PCR fragment of 90 bp in the C*06:41 and the C*12:32 alleles. Specific PCR fragment of 210 bp in the C*06:47 and the C*12:11 alleles.

Primer mix 29: Specific PCR fragment of 175 bp in the C*06:43 allele and in addition in the A*26:79 and in the B*15:207 alleles. Specific PCR fragment of 210 bp in the C*06:47 and the C*12:11 alleles.

Primer mix 32: Specific PCR fragment of 185 bp in the C*06:19 allele. Specific PCR fragment of 205 bp in the C*06:66 allele.

Primer mix 33: Specific PCR fragment of 105 bp in the C*06:60 allele. Specific PCR fragment of 245 bp in the C*06:69 allele.

Primer mix 35: Specific PCR fragment of 230 bp in the C*06:65 allele. Specific PCR fragment of 380 bp in the C*06:46N allele.

Primer mix 36: Specific PCR fragment of 120 bp in the C*06:57 allele. Specific PCR fragment of 215 bp in the C*06:58 allele.

Primer mix 38: Specific PCR fragment of 120 bp in the C*06:70 and the C*02:02:13 alleles. Specific PCR fragment of 470 bp in the C*06:73 and the C*03:171, 04:144, 08:20 and 08:40 alleles.

'w', may be weakly amplified.

101.614-12 – including *Taq* pol., IFU-01
 101.614-12u– without *Taq* pol., IFU-02

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Lot No.: **07S**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-C*06 SSP subtyping kit																				
				Well																
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
				Prod. No.:	201201501	201201502	201201503	201201504	201201505	201201506	201201507	201201508	201201509	201201510	201201511	201201512	201201513	201201514	201201515	201201516
	IHWC cell line		C*																	
1	9001 SA		*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707		*07:01	*15:05	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324		*12:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373		*03:04	*04:01	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011		*06:02		+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM		*03:04	*07:02	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL		*05:01		-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-
8	9025 DEU		*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR		*12:03		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3		*01:02		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT		*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB		*06:02		+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM		*01:02		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA		*01:02	*03:04	-	-	+	-	-	+	-	-	-	-	-	-	-	-	-	-
15	9075 DKB		*03:04		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007		*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540		*03:03	*07:01	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367		*01:02	*07:05	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
19	9038 BM16		*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005		*03:04		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA		*03:03		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE		*12:03		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL		*01:02	*15:02	-	-	-	+	-	+	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH		*12:03		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9		*08:02		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
26	9285 WT49		*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007		*07:04	*15:05	-	-	-	+	-	-	-	-	-	-	+	-	-	-	-	-
28	9320 BEL5GB		*05:01	*16:01	-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-
29	9050 MOU		*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH		*17:01		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF		*05:01		-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-
32	9297 HAG		*17:01	*17:03	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B		*03:04		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF		*12:03		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO		*05:01		-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-
36	9024 KT17		*03:03	*04:01	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB		*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL		*03:03		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML		*02:02	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199		*01:02	*06:02	+	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-
41	9055 H0301		*08:02		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089		*01:02		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
43	9076 T7526		*01:02	*08:01	-	-	-	+	-	+	-	-	-	-	-	-	-	-	-	-
44	9057 TEM		*12:03		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO		*06:02	*17:01	+	+	-	+	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU		*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO		*07:04	*15:02	-	-	-	+	-	-	-	-	-	-	+	-	-	-	-	-
48	9303 TER-ND		*04:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



101.614-12 – including *Taq* pol., IFU-01
 101.614-12u– without *Taq* pol., IFU-02

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Lot No.: **07S**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-C*06 SSP subtyping kit																				
				Well																
				17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
				Prod. No.:	201201517	201201518	201201519	201201520	201201521	201201522	201201523	201201524	201201525	201201526	201201527	201201528	201201529	201201530	201201531	201201532
	IHWC cell line		C*																	
1	9001 SA		*07:02																	
2	9280 LK707		*07:01	*15:05																
3	9011 E4181324		*12:02																	
4	9275 GU373		*03:04	*04:01																
5	9009 KAS011		*06:02																	
6	9353 SM		*03:04	*07:02																
7	9020 QBL		*05:01																	
8	9025 DEU		*04:01																	
9	9026 YAR		*12:03																	
10	9107 LKT3		*01:02																	
11	9051 PITOUT		*16:01																	
12	9052 DBB		*06:02																	
13	9004 JESTHOM		*01:02																	
14	9071 OLGA		*01:02	*03:04																
15	9075 DKB		*03:04																	
16	9037 SWEIG007		*02:02																	
17	9282 CTM3953540		*03:03	*07:01																
18	9257 32367		*01:02	*07:05																
19	9038 BM16		*07:01																	
20	9059 SLE005		*03:04																	
21	9064 AMALA		*03:03																	
22	9056 KOSE		*12:03																	
23	9124 IHL		*01:02	*15:02																
24	9035 JBUSH		*12:03																	
25	9049 IBW9		*08:02																	
26	9285 WT49		*07:01																	
27	9191 CH1007		*07:04	*15:05																
28	9320 BEL5GB		*05:01	*16:01																
29	9050 MOU		*16:01																	
30	9021 RSH		*17:01																	
31	9019 DUCAF		*05:01																	
32	9297 HAG		*17:01	*17:03																
33	9098 MT14B		*03:04																	
34	9104 DHIF		*12:03																	
35	9302 SSTO		*05:01																	
36	9024 KT17		*03:03	*04:01																
37	9065 HHKB		*07:02																	
38	9099 LZL		*03:03																	
39	9315 CML		*02:02	*07:01																
40	9134 WHONP199		*01:02	*06:02																
41	9055 H0301		*08:02																	
42	9066 TAB089		*01:02																	
43	9076 T7526		*01:02	*08:01																
44	9057 TEM		*12:03																	
45	9239 SHJO		*06:02	*17:01																
46	9013 SCHU		*07:02																	
47	9045 TUBO		*07:04	*15:02																
48	9303 TER-ND		*04:01	*16:01																



101.614-12 – including *Taq* pol., IFU-01
 101.614-12u– without *Taq* pol., IFU-02

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Lot No.: **07S**

Lot-specific information

CELL LINE VALIDATION SHEET																		
HLA-C*06 SSP subtyping kit																		
				Well														
				33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
			Prod. No.:	201201533	201201534	201201535	201201536	201201537	201201538	201201539	201201540	201315741	201315742	201315743	201315744	201315745	201315746	201315747
	IHWC cell line	C*																
1	9001 SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*07:01	*15:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*12:02		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
4	9275 GU373	*03:04	*04:01	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
5	9009 KAS011	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*03:04	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*04:01		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
9	9026 YAR	*12:03		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
10	9107 LKT3	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*01:02	*03:04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:03	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*01:02	*07:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*12:03		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
23	9124 IHL	*01:02	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*12:03		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
25	9049 IBW9	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*07:04	*15:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*05:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*17:01		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
31	9019 DUCAF	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*17:01	*17:03	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
33	9098 MT14B	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*12:03		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
35	9302 SSTO	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*03:03	*04:01	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
37	9065 HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*02:02	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*01:02	*06:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*01:02	*08:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*12:03		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
45	9239 SHJO	*06:02	*17:01	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
46	9013 SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*07:04	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*04:01	*16:01	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-

101.614-12 – including *Taq* pol., IFU-01
 101.614-12u– without *Taq* pol., IFU-02

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Lot No.: **07S**

Lot-specific information
CERTIFICATE OF ANALYSIS

Olerup SSP® HLA-C*06 SSP

Product number: 101.614-12 – including *Taq* polymerase
 101.614-12u – without *Taq* polymerase
Lot number: 07S
Expiry date: 2015-October-01
Number of tests: 12
Number of wells per test: 47

Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2012-015-01	17	2012-015-17	33	2012-015-33
2	2012-015-02	18	2012-015-18	34	2012-015-34
3	2012-015-03	19	2012-015-19	35	2012-015-35
4	2012-015-04	20	2012-015-20	36	2012-015-36
5	2012-015-05	21	2012-015-21	37	2012-015-37
6	2012-015-06	22	2012-015-22	38	2012-015-38
7	2012-015-07	23	2012-015-23	39	2012-015-39
8	2012-015-08	24	2012-015-24	40	2012-015-40
9	2012-015-09	25	2012-015-25	41	2013-157-41
10	2012-015-10	26	2012-015-26	42	2013-157-42
11	2012-015-11	27	2012-015-27	43	2013-157-43
12	2012-015-12	28	2012-015-28	44	2013-157-44
13	2012-015-13	29	2012-015-29	45	2013-157-45
14	2012-015-14	30	2012-015-30	46	2013-157-46
15	2012-015-15	31	2012-015-31	47	2013-157-47
16	2012-015-16	32	2012-015-32		

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 7, 8, 10, 12 to 22, 24 to 42 and 44 to 47 were available.

The specificity of the primers in primer solutions 8, 10, 12, 14, 16, 19, 21, 22, 24, 27, 30, 32, 34, 35, 38, 41, 42 and 44 were tested by separately adding one 5'-primer, respectively one 3'-primer. In primer solutions 13, 17, 20, 25, 33, 39, 40 and 45 it was only possible to test the 5'-primer, the 3'-primer was not possible to test. In primer solutions 7, 15, 18, 26, 28, 29, 31, 36, 37 and 46 to 47 it was only possible to test the 3'-primer, the 5'-primer was not possible to test.

In primer solution 2, 3, 5, 10, 12, 14, 16, 21, 32, 35 and 38 one or two 5'-primers were not possible to test, and in primer solutions 10, 11, 19, 21, 27, 32, 35 and 42 one 3'-primer was not possible to test.

Additional primers in primers solutions 5, 9 and 11 were tested by separately adding one 5'-primer or one 3'-primer.

101.614-12 – including *Taq* pol., IFU-01
101.614-12u– without *Taq* pol., IFU-02

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Lot No.: **07S**

Lot-specific information

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

Date of approval: 2013-May-06

Approved by:

Production Quality Control

101.614-12 – including *Taq* pol., IFU-01
101.614-12u– without *Taq* pol., IFU-02

Visit www.olerup-ssp.com for
“Instructions for Use” (IFU)

Lot No.: **07S**

Lot-specific information
Declaration of Conformity

Product name: *Olerup* SSP® HLA-C*06
Product number: 101.614-12/12u
Lot number: 07S

Intended use: HLA-C*06 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 13485:2012, following the provisions of the 98/79/EC Directive on *in vitro* diagnostic medical devices, Annex III, 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.

Stockholm, Sweden
2013-May-06

Ann-Cathrin Jareman
Head of QA and Regulatory Affairs

101.614-12 – including *Taq* pol., IFU-01
101.614-12u– without *Taq* pol., IFU-02

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101.614-12u– without *Taq* pol., IFU-02

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Lot No.: **07S**

Lot-specific information

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**.