

101.424-12 – including *Taq* polymerase, IFU-01
101.424-12u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: **21S**

Lot-specific information
Olerup SSP[®] HLA-A*26

Product number:	101.424-12 – including <i>Taq</i> polymerase 101.424-12u- without <i>Taq</i> polymerase
Lot number:	21S
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°C
- Adhesive PCR seals	RT
- Product Insert	RT

This Product Description is only valid for Lot No. 21S.

**CHANGES COMPARED TO THE PREVIOUS *OLERUP SSP[®]*
HLA-A*26 LOT (60N)**

The HLA-A*26 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

The Lot-specific information for HLA-A*26 including and without *Taq* polymerase is now described in one common Product Insert.

¹As described in section Uniquely Identified Alleles.

The HLA-A*26 specificity and interpretation tables have been updated for the HLA-A alleles described since the previous *Olerup SSP[®]* HLA-A*26 lot was made (**Lot No. 60N**).

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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
21	-	Added	3'-primer added for the A*26:82 allele.
23	-	Added	3'-primer added for the A*26:82 allele.
27	Added		5'-primer added for the A*26:76 allele.
37	-	-	Exchanged positive control primer pair.

Change in revision R01 compared to R00:

1. Primer mix 6 does not amplify the A*26:27 allele. This has been corrected in the Specificity and Interpretation tables. Thus, this lot of the HLA-A*26 subtyping kit cannot distinguish the A*26:01 alleles and the A*26:27 allele.

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PRODUCT DESCRIPTION

HLA-A*26 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the A*26:01 to A*26:84 alleles.

PLATE LAYOUT

Each test consists of 47 PCR reactions in a 48 well cut PCR plate. Wells 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	44	45	46	47	empty

The 48 well PCR plate is marked with 'HLA-A*26' in silver/gray ink.

Well No. 1 is marked with the Lot Number '21S'.

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-A*26 SSP subtypings will be influenced by twelve A*01, several A*02, five A*03, most A*11, the A*23, several A*24, the A*25, three A*29, five A*30, four A*31, the A*32:26, five A*33, the A*34, the A*36:03, the A*43:01, the A*66, several A*68, the A*69:01, two A*74 and the A*80:01:01:01 alleles when present on the other haplotype. In addition, primer mix 18 will amplify the C*06:71 allele, primer mix 22 will amplify the C*06:75 allele, primer mix 24 will amplify the C*06:72 allele and primer mix 30 will amplify the B*35:108:01, B*53:26 and C*12:91 alleles.

UNIQUELY IDENTIFIED ALLELES

All the HLA-A*26 alleles, i.e. **A*26:01 to A*26:84**, recognized by the HLA Nomenclature Committee in January 2013 will be amplified by the primers in the HLA-A*26 subtyping kit^{1,2}.

The HLA-A*26 kit enables separation of the confirmed HLA-A*26 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-A*26 alleles is listed below.

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The HLA-A*26 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-A*26 subtyping kit cannot distinguish the the following silent mutations: A*26:01:01-26:01:27, the A*26:03:01-26:03:02 or the A*26:07:01-26:07:02 alleles.

The A*26:17 and A*26:45 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 13.

The A*26:24 and A*26:41 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 21.

The A*26:25N and A*26:38 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 22.

The A*26:43:01 and A*26:61 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 32.

The A*26:46 and A*26:53 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 33.

The A*26:54 and A*26:55 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 36.

The A*26:59 and A*26:69 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 35.

The A*26:62 and A*26:63 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 39.

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

²This lot of the HLA-A*26 subtyping kit cannot distinguish the A*26:01 alleles and the A*26:27 allele.

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ALLELE CONFIRMATION STATUS

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

¹Allele 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.

RESOLUTION IN HOMO- AND HETEROZYGOTES

A total of 112 alleles generate 65 amplification patterns that can be combined in 2145 homozygous and heterozygous combinations. 790 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.

++-----	-----	-----	-----	-----	-----	*26:01:01, *26:66 = *26:66, *26:66
++-----	-----	-----	-----	-----	-----	*26:01:01, *26:43:02 = *26:43:02, *26:43:02
++-----	-----	-----	-----	-----	-----	*26:01:01, *26:71N = *26:71N, *26:71N
++-----	-----	-----	-----	-----	-----	*26:01:01, *26:68 = *26:68, *26:68
++-----	-----	-----	-----	-----	-----	*26:01:01, *26:58 = *26:58, *26:58
++-----	-----	-----	-----	-----	-----	*26:01:01, *26:60N = *26:60N, *26:60N
++-----	-----	-----	-----	-----	-----	*26:01:01, *26:62 = *26:01:01, *26:72 = *26:62, *26:62 = *26:62, *26:72
++-----	-----	-----	-----	-----	-----	*26:01:01, *26:51 = *26:51, *26:51
++-----	-----	-----	-----	-----	-----	*26:01:01, *26:50 = *26:50, *26:50
++-----	-----	-----	-----	-----	-----	*26:01:01, *26:54 = *26:54, *26:54
++-----	-----	-----	-----	-----	-----	*26:01:01, *26:59 = *26:59, *26:59

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++-----	-----	-----	-----	+	-----	*26:01:01, *26:47 = *26:47, *26:47
++-----	-----	-----	-----	+	-----	*26:01:01, *26:46 = *26:46, *26:46
++-----	-----	-----	-----	+	-----	*26:01:01, *26:43:01 = *26:43:01, *26:43:01
++-----	-----	-----	-----	+	-----	*26:01:01, *26:39 = *26:39, *26:39
++-----	-----	-----	-----	+	-----	*26:01:01, *26:15 = *26:15, *26:15
++-----	-----	-----	-----	+	-----	*26:01:01, *26:37 = *26:37, *26:37
++-----	-----	-----	-----	+	-----	*26:01:01, *26:36 = *26:36, *26:36
++-----	-----	-----	-----	+	-----	*26:01:01, *26:35 = *26:01:01, *26:76 = *26:35, *26:35 = *26:35, *26:76
++-----	-----	-----	-----	+	-----	*26:01:01, *26:34 = *26:01:01, *26:42 = *26:34, *26:42 = *26:42, *26:42
++-----	-----	-----	-----	+	-----	*26:01:01, *26:65 = *26:65, *26:65
++-----	-----	-----	-----	+	-----	*26:01:01, *26:32 = *26:32, *26:32
++-----	-----	-----	-----	+	-----	*26:01:01, *26:26 = *26:26, *26:26
++-----	-----	-----	-----	+	-----	*26:01:01, *26:25N = *26:25N, *26:25N
++-----	-----	-----	-----	+	-----	*26:01:01, *26:24 = *26:24, *26:24
++-----	-----	-----	-----	+	-----	*26:01:01, *26:23 = *26:23, *26:23
++-----	-----	-----	-----	+	-----	*26:01:01, *26:22 = *26:01:01, *26:40 = *26:22, *26:22 = *26:22, *26:40
++-----	-----	-----	-----	+	-----	*26:01:01, *26:10 = *26:10, *26:10
++-----	-----	-----	-----	+	-----	*26:01:01, *26:17 = *26:17, *26:17
++-----	-----	-----	-----	+	-----	*26:01:01, *26:16 = *26:16, *26:16
++-----	-----	-----	-----	+	-----	*26:01:01, *26:07:01 = *26:01:01, *26:20 = *26:07:01, *26:20 = *26:20, *26:20
++-----	-----	-----	-----	+	-----	*26:01:01, *26:12 = *26:12, *26:12
++-----	-----	-----	-----	+	-----	*26:01:01, *26:11N = *26:11N, *26:11N
++-----	-----	-----	-----	+	-----	*26:01:01, *26:08 = *26:08, *26:08
++-----	-----	-----	-----	+	-----	*26:01:01, *26:05 = *26:01:01, *26:27 = *26:05, *26:27 = *26:27, *26:27
++-----	-----	-----	-----	+	-----	*26:03:01, *26:21 = *26:03:01, *26:31 = *26:21, *26:21 = *26:21, *26:31
++-----	-----	-----	-----	+	-----	*26:62, *26:66 = *26:66, *26:72
++-----	-----	-----	-----	+	-----	*26:43:02, *26:62 = *26:43:02, *26:72
++-----	-----	-----	-----	+	-----	*26:62, *26:71N = *26:71N, *26:72
++-----	-----	-----	-----	+	-----	*26:62, *26:68 = *26:68, *26:72
++-----	-----	-----	-----	+	-----	*26:58, *26:62 = *26:58, *26:72
++-----	-----	-----	-----	+	-----	*26:60N, *26:62 = *26:60N, *26:72
++-----	-----	-----	-----	+	-----	*26:51, *26:62 = *26:51, *26:72
++-----	-----	-----	-----	+	-----	*26:01:01, *26:64 = *26:50, *26:62 = *26:50, *26:64 = *26:50, *26:72 = *26:62, *26:64 = *26:64, *26:64 = *26:64, *26:72
++-----	-----	-----	-----	+	-----	*26:54, *26:62 = *26:54, *26:72
++-----	-----	-----	-----	+	-----	*26:59, *26:62 = *26:59, *26:72
++-----	-----	-----	-----	+	-----	*26:47, *26:62 = *26:47, *26:72
++-----	-----	-----	-----	+	-----	*26:46, *26:62 = *26:46, *26:72
++-----	-----	-----	-----	+	-----	*26:43:01, *26:62 = *26:43:01, *26:72
++-----	-----	-----	-----	+	-----	*26:39, *26:62 = *26:39, *26:72
++-----	-----	-----	-----	+	-----	*26:15, *26:62 = *26:15, *26:72
++-----	-----	-----	-----	+	-----	*26:37, *26:62 = *26:37, *26:72
++-----	-----	-----	-----	+	-----	*26:36, *26:62 = *26:36, *26:72
++-----	-----	-----	-----	+	-----	*26:35, *26:66 = *26:66, *26:76
++-----	-----	-----	-----	+	-----	*26:35, *26:43:02 = *26:43:02, *26:76
++-----	-----	-----	-----	+	-----	*26:35, *26:71N = *26:71N, *26:76
++-----	-----	-----	-----	+	-----	*26:35, *26:68 = *26:68, *26:76
++-----	-----	-----	-----	+	-----	*26:35, *26:58 = *26:58, *26:76
++-----	-----	-----	-----	+	-----	*26:35, *26:60N = *26:60N, *26:76
++-----	-----	-----	-----	+	-----	*26:35, *26:62 = *26:35, *26:72 = *26:62, *26:76
++-----	-----	-----	-----	+	-----	*26:35, *26:51 = *26:51, *26:76
++-----	-----	-----	-----	+	-----	*26:35, *26:50 = *26:50, *26:76
++-----	-----	-----	-----	+	-----	*26:35, *26:54 = *26:54, *26:76
++-----	-----	-----	-----	+	-----	*26:35, *26:59 = *26:59, *26:76
++-----	-----	-----	-----	+	-----	*26:35, *26:47 = *26:47, *26:76
++-----	-----	-----	-----	+	-----	*26:35, *26:46 = *26:46, *26:76



101.424-12 – including *Taq* polymerase, IFU-01
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++-----	-----	-----	-----	-----	*26:35, *26:43:01 = *26:43:01, *26:76
++-----	-----	-----	-----	-----	*26:35, *26:39 = *26:39, *26:76
++-----	-----	-----	-----	-----	*26:15, *26:35 = *26:15, *26:76
++-----	-----	-----	-----	-----	*26:35, *26:37 = *26:37, *26:76
++-----	-----	-----	-----	-----	*26:35, *26:36 = *26:36, *26:76
++-----	-----	-----	-----	-----	*26:34, *26:66 = *26:42, *26:66
++-----	-----	-----	-----	-----	*26:34, *26:43:02 = *26:42, *26:43:02
++-----	-----	-----	-----	-----	*26:34, *26:71N = *26:42, *26:71N
++-----	-----	-----	-----	-----	*26:34, *26:68 = *26:42, *26:68
++-----	-----	-----	-----	-----	*26:34, *26:58 = *26:42, *26:58
++-----	-----	-----	-----	-----	*26:34, *26:60N = *26:42, *26:60N
++-----	-----	-----	-----	-----	*26:34, *26:57 = *26:42, *26:57
++-----	-----	-----	-----	-----	*26:34, *26:62 = *26:34, *26:72 = *26:42, *26:62 = *26:42, *26:72
++-----	-----	-----	-----	-----	*26:34, *26:51 = *26:42, *26:51
++-----	-----	-----	-----	-----	*26:34, *26:50 = *26:42, *26:50
++-----	-----	-----	-----	-----	*26:34, *26:54 = *26:42, *26:54
++-----	-----	-----	-----	-----	*26:34, *26:59 = *26:42, *26:59
++-----	-----	-----	-----	-----	*26:34, *26:47 = *26:42, *26:47
++-----	-----	-----	-----	-----	*26:34, *26:46 = *26:42, *26:46
++-----	-----	-----	-----	-----	*26:34, *26:43:01 = *26:42, *26:43:01
++-----	-----	-----	-----	-----	*26:34, *26:39 = *26:39, *26:42
++-----	-----	-----	-----	-----	*26:15, *26:34 = *26:15, *26:42
++-----	-----	-----	-----	-----	*26:34, *26:37 = *26:37, *26:42
++-----	-----	-----	-----	-----	*26:34, *26:36 = *26:36, *26:42
++-----	-----	-----	-----	-----	*26:34, *26:35 = *26:34, *26:76 = *26:35, *26:42 = *26:42, *26:76
++-----	-----	-----	-----	-----	*26:62, *26:65 = *26:65, *26:72
++-----	-----	-----	-----	-----	*26:35, *26:65 = *26:65, *26:76
++-----	-----	-----	-----	-----	*26:34, *26:65 = *26:65, *26:65
++-----	-----	-----	-----	-----	*26:32, *26:62 = *26:32, *26:72
++-----	-----	-----	-----	-----	*26:32, *26:35 = *26:32, *26:76
++-----	-----	-----	-----	-----	*26:32, *26:34 = *26:32, *26:42
++-----	-----	-----	-----	-----	*26:26, *26:62 = *26:26, *26:72
++-----	-----	-----	-----	-----	*26:01:01, *26:56 = *26:15, *26:26 = *26:15, *26:56 = *26:26, *26:56 = *26:56, *26:56
++-----	-----	-----	-----	-----	*26:26, *26:35 = *26:26, *26:76
++-----	-----	-----	-----	-----	*26:26, *26:34 = *26:26, *26:42
++-----	-----	-----	-----	-----	*26:25N, *26:62 = *26:25N, *26:72
++-----	-----	-----	-----	-----	*26:25N, *26:35 = *26:25N, *26:76
++-----	-----	-----	-----	-----	*26:25N, *26:34 = *26:25N, *26:42
++-----	-----	-----	-----	-----	*26:24, *26:62 = *26:24, *26:72
++-----	-----	-----	-----	-----	*26:24, *26:35 = *26:24, *26:76
++-----	-----	-----	-----	-----	*26:24, *26:34 = *26:24, *26:42
++-----	-----	-----	-----	-----	*26:01:01, *26:82 = *26:24, *26:26 = *26:24, *26:82 = *26:26, *26:82 = *26:82, *26:82
++-----	-----	-----	-----	-----	*26:23, *26:62 = *26:23, *26:72
++-----	-----	-----	-----	-----	*26:23, *26:35 = *26:23, *26:76
++-----	-----	-----	-----	-----	*26:23, *26:34 = *26:23, *26:42
++-----	-----	-----	-----	-----	*26:22, *26:66 = *26:40, *26:66
++-----	-----	-----	-----	-----	*26:22, *26:43:02 = *26:40, *26:43:02
++-----	-----	-----	-----	-----	*26:22, *26:71N = *26:40, *26:71N
++-----	-----	-----	-----	-----	*26:22, *26:68 = *26:40, *26:68
++-----	-----	-----	-----	-----	*26:22, *26:58 = *26:40, *26:58
++-----	-----	-----	-----	-----	*26:22, *26:60N = *26:40, *26:60N
++-----	-----	-----	-----	-----	*26:22, *26:57 = *26:40, *26:57
++-----	-----	-----	-----	-----	*26:22, *26:62 = *26:22, *26:72 = *26:40, *26:62 = *26:40, *26:72
++-----	-----	-----	-----	-----	*26:22, *26:51 = *26:40, *26:51
++-----	-----	-----	-----	-----	*26:22, *26:50 = *26:40, *26:50
++-----	-----	-----	-----	-----	*26:22, *26:54 = *26:40, *26:54
++-----	-----	-----	-----	-----	*26:22, *26:59 = *26:40, *26:59
++-----	-----	-----	-----	-----	*26:22, *26:47 = *26:40, *26:47



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Lot-specific information

++-----	-----	-----	-----	-----	*26:22, *26:46 = *26:40, *26:46
++-----	-----	-----	-----	-----	*26:22, *26:43:01 = *26:40, *26:43:01
++-----	-----	-----	-----	-----	*26:22, *26:39 = *26:39, *26:40
++-----	-----	-----	-----	-----	*26:15, *26:22 = *26:15, *26:40
++-----	-----	-----	-----	-----	*26:22, *26:37 = *26:37, *26:40
++-----	-----	-----	-----	-----	*26:22, *26:36 = *26:36, *26:40
++-----	-----	-----	-----	-----	*26:22, *26:35 = *26:22, *26:76 = *26:35, *26:40 = *26:40, *26:76
++-----	-----	-----	-----	-----	*26:22, *26:34 = *26:22, *26:42 = *26:40, *26:42
++-----	-----	-----	-----	-----	*26:22, *26:65 = *26:40, *26:65
++-----	-----	-----	-----	-----	*26:22, *26:32 = *26:32, *26:40
++-----	-----	-----	-----	-----	*26:22, *26:26 = *26:26, *26:40
++-----	-----	-----	-----	-----	*26:22, *26:25N = *26:25N, *26:40
++-----	-----	-----	-----	-----	*26:22, *26:24 = *26:24, *26:40
++-----	-----	-----	-----	-----	*26:22, *26:23 = *26:23, *26:40
++-----	-----	-----	-----	-----	*26:31, *26:34 = *26:31, *26:42
++-----	-----	-----	-----	-----	*26:22, *26:31 = *26:31, *26:40
++-----	-----	-----	-----	-----	*26:09, *26:62 = *26:09, *26:72
++-----	-----	-----	-----	-----	*26:09, *26:35 = *26:09, *26:76
++-----	-----	-----	-----	-----	*26:01:01, *26:13 = *26:13, *26:13
++-----	-----	-----	-----	-----	*26:10, *26:62 = *26:10, *26:72
++-----	-----	-----	-----	-----	*26:10, *26:35 = *26:10, *26:76
++-----	-----	-----	-----	-----	*26:10, *26:34 = *26:10, *26:42
++-----	-----	-----	-----	-----	*26:10, *26:22 = *26:10, *26:40
++-----	-----	-----	-----	-----	*26:17, *26:62 = *26:17, *26:72
++-----	-----	-----	-----	-----	*26:17, *26:35 = *26:17, *26:76
++-----	-----	-----	-----	-----	*26:17, *26:34 = *26:17, *26:42
++-----	-----	-----	-----	-----	*26:17, *26:22 = *26:17, *26:40
++-----	-----	-----	-----	-----	*26:16, *26:62 = *26:16, *26:72
++-----	-----	-----	-----	-----	*26:16, *26:35 = *26:16, *26:76
++-----	-----	-----	-----	-----	*26:16, *26:34 = *26:16, *26:42
++-----	-----	-----	-----	-----	*26:16, *26:22 = *26:16, *26:40
++-----	-----	-----	-----	-----	*26:07:01, *26:66 = *26:20, *26:66
++-----	-----	-----	-----	-----	*26:07:01, *26:43:02 = *26:20, *26:43:02
++-----	-----	-----	-----	-----	*26:07:01, *26:71N = *26:20, *26:71N
++-----	-----	-----	-----	-----	*26:07:01, *26:68 = *26:20, *26:68
++-----	-----	-----	-----	-----	*26:07:01, *26:58 = *26:20, *26:58
++-----	-----	-----	-----	-----	*26:07:01, *26:60N = *26:20, *26:60N
++-----	-----	-----	-----	-----	*26:07:01, *26:62 = *26:20, *26:62 = *26:20, *26:72
++-----	-----	-----	-----	-----	*26:07:01, *26:51 = *26:20, *26:51
++-----	-----	-----	-----	-----	*26:07:01, *26:50 = *26:20, *26:50
++-----	-----	-----	-----	-----	*26:07:01, *26:54 = *26:20, *26:54
++-----	-----	-----	-----	-----	*26:07:01, *26:59 = *26:20, *26:59
++-----	-----	-----	-----	-----	*26:07:01, *26:47 = *26:20, *26:47
++-----	-----	-----	-----	-----	*26:07:01, *26:46 = *26:20, *26:46
++-----	-----	-----	-----	-----	*26:07:01, *26:43:01 = *26:20, *26:43:01
++-----	-----	-----	-----	-----	*26:07:01, *26:39 = *26:20, *26:39
++-----	-----	-----	-----	-----	*26:07:01, *26:15 = *26:15, *26:20
++-----	-----	-----	-----	-----	*26:07:01, *26:37 = *26:20, *26:37
++-----	-----	-----	-----	-----	*26:07:01, *26:36 = *26:20, *26:36
++-----	-----	-----	-----	-----	*26:07:01, *26:35 = *26:20, *26:35 = *26:20, *26:76
++-----	-----	-----	-----	-----	*26:07:01, *26:34 = *26:07:01, *26:42 = *26:20, *26:34 = *26:20, *26:42
++-----	-----	-----	-----	-----	*26:07:01, *26:65 = *26:20, *26:65
++-----	-----	-----	-----	-----	*26:07:01, *26:32 = *26:20, *26:32
++-----	-----	-----	-----	-----	*26:07:01, *26:26 = *26:20, *26:26
++-----	-----	-----	-----	-----	*26:07:01, *26:25N = *26:20, *26:25N
++-----	-----	-----	-----	-----	*26:07:01, *26:24 = *26:20, *26:24
++-----	-----	-----	-----	-----	*26:07:01, *26:23 = *26:20, *26:23
++-----	-----	-----	-----	-----	*26:07:01, *26:22 = *26:07:01, *26:40 = *26:20, *26:22 = *26:20, *26:40

101.424-12 – including *Taq* polymerase, IFU-01
101.424-12u – without *Taq* polymerase, IFU-02

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

Lot No.: **21S**

Lot-specific information

++-----	-+-----	+-----	-----	-----	-----	*26:07:01, *26:09 = *26:09, *26:20
++-----	-+-----	+-----	-----	-----	-----	*26:07:01, *26:10 = *26:10, *26:20
++-----	-+-----	+-----	-----	-----	-----	*26:07:01, *26:17 = *26:17, *26:20
++-----	-+-----	+-----	-----	-----	-----	*26:07:01, *26:16 = *26:16, *26:20
++-----	+-----	-----	-----	-----	+-----	*26:12, *26:62 = *26:12, *26:72
++-----	+-----	-----	-----	-+-----	-----	*26:01:01, *26:49 = *26:12, *26:47 = *26:12, *26:49 = *26:47, *26:49 = *26:49, *26:49
++-----	+-----	-----	-----	-+-----	-----	*26:12, *26:35 = *26:12, *26:76
++-----	+-----	-----	-----	-+-----	-----	*26:12, *26:34 = *26:12, *26:42
++-----	+-----	-----	-----	-+-----	-----	*26:12, *26:22 = *26:12, *26:40
++-----	++-----	-----	-----	-----	-----	*26:07:01, *26:12 = *26:12, *26:20
++-----	+-----	-----	-----	-----	+-----	*26:11N, *26:62 = *26:11N, *26:72
++-----	+-----	-----	-----	-+-----	-----	*26:11N, *26:35 = *26:11N, *26:76
++-----	+-----	-----	-----	-+-----	-----	*26:11N, *26:34 = *26:11N, *26:42
++-----	+-----	-----	-----	-+-----	-----	*26:11N, *26:22 = *26:11N, *26:40
++-----	+-----	-----	-----	-----	-----	*26:07:01, *26:11N = *26:11N, *26:20
++-----	+-----	-----	-----	-----	+-----	*26:08, *26:62 = *26:08, *26:72
++-----	+-----	-----	-----	-+-----	-----	*26:01:01, *26:48 = *26:08, *26:48 = *26:08, *26:59 = *26:48, *26:48 = *26:48, *26:59
++-----	+-----	-----	-----	-+-----	-----	*26:08, *26:35 = *26:08, *26:76
++-----	+-----	-----	-----	-+-----	-----	*26:08, *26:34 = *26:08, *26:42
++-----	+-----	-----	-----	-+-----	-----	*26:08, *26:22 = *26:08, *26:40
++-----	+-----	-----	-----	-----	-----	*26:07:01, *26:08 = *26:08, *26:20
++-----	+-----	-----	-----	-----	-----	*26:05, *26:66 = *26:27, *26:66
++-----	+-----	-----	-----	-----	+-----	*26:05, *26:43:02 = *26:27, *26:43:02
++-----	+-----	-----	-----	-----	+-----	*26:05, *26:71N = *26:27, *26:71N
++-----	+-----	-----	-----	-----	+-----	*26:05, *26:68 = *26:27, *26:68
++-----	+-----	-----	-----	-----	+-----	*26:05, *26:58 = *26:27, *26:58
++-----	+-----	-----	-----	-----	+-----	*26:05, *26:60N = *26:27, *26:60N
++-----	+-----	-----	-----	-----	+-----	*26:05, *26:62 = *26:27, *26:62 = *26:27, *26:72
++-----	+-----	-----	-----	-----	+-----	*26:05, *26:51 = *26:27, *26:51
++-----	+-----	-----	-----	-----	+-----	*26:05, *26:50 = *26:27, *26:50
++-----	+-----	-----	-----	-----	+-----	*26:05, *26:54 = *26:27, *26:54
++-----	+-----	-----	-----	-----	+-----	*26:05, *26:59 = *26:27, *26:59
++-----	+-----	-----	-----	-----	+-----	*26:05, *26:47 = *26:27, *26:47
++-----	+-----	-----	-----	-----	+-----	*26:05, *26:46 = *26:27, *26:46
++-----	+-----	-----	-----	-----	+-----	*26:05, *26:43:01 = *26:27, *26:43:01
++-----	+-----	-----	-----	-----	+-----	*26:05, *26:39 = *26:27, *26:39
++-----	+-----	-----	-----	-----	+-----	*26:05, *26:15 = *26:15, *26:27
++-----	+-----	-----	-----	-----	+-----	*26:05, *26:37 = *26:27, *26:37
++-----	+-----	-----	-----	-----	+-----	*26:05, *26:36 = *26:27, *26:36
++-----	+-----	-----	-----	-----	+-----	*26:05, *26:35 = *26:27, *26:35 = *26:27, *26:76
++-----	+-----	-----	-----	-----	+-----	*26:05, *26:34 = *26:05, *26:42 = *26:27, *26:34 = *26:27, *26:42
++-----	+-----	-----	-----	-----	+-----	*26:05, *26:65 = *26:27, *26:65
++-----	+-----	-----	-----	-----	+-----	*26:05, *26:32 = *26:27, *26:32
++-----	+-----	-----	-----	-----	+-----	*26:05, *26:26 = *26:26, *26:27
++-----	+-----	-----	-----	-----	+-----	*26:05, *26:25N = *26:25N, *26:27
++-----	+-----	-----	-----	-----	+-----	*26:05, *26:24 = *26:24, *26:27
++-----	+-----	-----	-----	-----	+-----	*26:05, *26:23 = *26:23, *26:27
++-----	+-----	-----	-----	-----	+-----	*26:05, *26:22 = *26:05, *26:40 = *26:22, *26:27 = *26:27, *26:40
++-----	+-----	-----	-----	-----	+-----	*26:05, *26:09 = *26:09, *26:27
++-----	+-----	-----	-----	-----	+-----	*26:05, *26:10 = *26:10, *26:27
++-----	+-----	-----	-----	-----	+-----	*26:05, *26:17 = *26:17, *26:27
++-----	+-----	-----	-----	-----	+-----	*26:05, *26:16 = *26:16, *26:27
++-----	+-----	-----	-----	-----	+-----	*26:05, *26:20 = *26:07:01, *26:27 = *26:20, *26:27
++-----	+-----	-----	-----	-----	+-----	*26:05, *26:12 = *26:12, *26:27
++-----	+-----	-----	-----	-----	+-----	*26:05, *26:11N = *26:11N, *26:27
++-----	+-----	-----	-----	-----	+-----	*26:05, *26:08 = *26:08, *26:27
++-----	+-----	-----	-----	-----	+-----	*26:04, *26:62 = *26:04, *26:72
++-----	+-----	-----	-----	-----	+-----	*26:04, *26:35 = *26:04, *26:76



101.424-12 – including Taq polymerase, IFU-01
101.424-12u – without Taq polymerase, IFU-02

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Lot No.: 21S

Lot-specific information

++-+-----	-+-----	-----	-----	-----	*26:04, *26:07:01 = *26:04, *26:20
++-+-----	-----	-----	-----	-----	*26:04, *26:05 = *26:04, *26:27
++-+-----	-----	-----	-----	-----	*26:01:01, *26:03:01 = *26:03:01, *26:36
++-+-----	-----	-----	+-----	-----	*26:01:01, *26:30 = *26:30, *26:65
+++-----	-----	-----	-----	-----	*26:02, *26:62 = *26:02, *26:72
+++-----	-----	-----	-+-----	-----	*26:02, *26:35 = *26:02, *26:76
+++-----	-+-----	-----	-----	-----	*26:02, *26:07:01 = *26:02, *26:20
+++-----	-----	-----	-----	-----	*26:02, *26:05 = *26:02, *26:27
+--+-----	-+-----	-+-----	-+-----	-----	*26:06, *26:21 = *26:06, *26:31
+--+-----	-----	-+-----	-+-----	-----	*26:21, *26:78 = *26:31, *26:78
++-----	-----	-----	-+-----	-----	*26:35, *26:64 = *26:64, *26:76
++-----	-----	-----	+-----	-----	*26:34, *26:64 = *26:42, *26:64
++-----	-----	-----	+-----	-----	*26:56, *26:62 = *26:56, *26:72
++-----	-----	-----	+-----	-----	*26:35, *26:56 = *26:56, *26:76
++-----	-----	-----	+-----	-----	*26:34, *26:56 = *26:42, *26:56
++-----	-----	-----	+-----	-----	*26:62, *26:82 = *26:72, *26:82
++-----	-----	-----	+-----	-----	*26:15, *26:82 = *26:24, *26:56 = *26:56, *26:82
++-----	-----	-----	+-----	-----	*26:35, *26:82 = *26:76, *26:82
++-----	-----	-----	+-----	-----	*26:34, *26:82 = *26:42, *26:82
++-----	-----	-----	+-----	-----	*26:22, *26:64 = *26:40, *26:64
++-----	-----	-----	+-----	-----	*26:22, *26:56 = *26:40, *26:56
++-----	-----	-----	+-----	-----	*26:22, *26:82 = *26:40, *26:82
++-----	-----	-----	+-----	-----	*26:13, *26:62 = *26:13, *26:72
++-----	-----	-----	+-----	-----	*26:01:01, *26:33 = *26:13, *26:15 = *26:13,
++-----	-----	-----	+-----	-----	*26:33 = *26:15, *26:33 = *26:33, *26:33
++-----	-----	-----	+-----	-----	*26:13, *26:35 = *26:13, *26:76
++-----	-----	-----	+-----	-----	*26:13, *26:34 = *26:13, *26:42
++-----	-----	-----	+-----	-----	*26:13, *26:22 = *26:13, *26:40
++-----	-----	-----	+-----	-----	*26:01:01, *26:19 = *26:13, *26:19
++-----	-----	-----	+-----	-----	*26:07:01, *26:64 = *26:20, *26:64
++-----	-----	-----	+-----	-----	*26:07:01, *26:56 = *26:20, *26:56
++-----	-----	-----	+-----	-----	*26:07:01, *26:82 = *26:20, *26:82
++-----	-----	-----	+-----	-----	*26:07:01, *26:13 = *26:13, *26:20
++-----	-----	-----	+-----	-----	*26:49, *26:62 = *26:49, *26:72
++-----	-----	-----	+-----	-----	*26:01:01, *26:29 = *26:12, *26:29 = *26:15,
++-----	-----	-----	+-----	-----	*26:29 = *26:15, *26:49 = *26:29, *26:29 = *26:29,
++-----	-----	-----	+-----	-----	*26:47 = *26:29, *26:49
++-----	-----	-----	+-----	-----	*26:35, *26:49 = *26:49, *26:76
++-----	-----	-----	+-----	-----	*26:34, *26:49 = *26:42, *26:49
++-----	-----	-----	+-----	-----	*26:22, *26:49 = *26:40, *26:49
++-----	-----	-----	+-----	-----	*26:07:01, *26:49 = *26:20, *26:49
++-----	-----	-----	+-----	-----	*26:01:01, *26:14 = *26:11N, *26:14 = *26:14,
++-----	-----	-----	+-----	-----	*26:14 = *26:14, *26:16
++-----	-----	-----	+-----	-----	*26:48, *26:62 = *26:48, *26:72
++-----	-----	-----	+-----	-----	*26:35, *26:48 = *26:48, *26:76
++-----	-----	-----	+-----	-----	*26:34, *26:48 = *26:42, *26:48
++-----	-----	-----	+-----	-----	*26:22, *26:48 = *26:40, *26:48
++-----	-----	-----	+-----	-----	*26:07:01, *26:48 = *26:20, *26:48
++-----	-----	-----	+-----	-----	*26:01:01, *26:52 = *26:08, *26:52 = *26:11N,
++-----	-----	-----	+-----	-----	*26:52 = *26:16, *26:52 = *26:52, *26:52
++-----	-----	-----	+-----	-----	*26:05, *26:64 = *26:27, *26:64
++-----	-----	-----	+-----	-----	*26:05, *26:56 = *26:27, *26:56
++-----	-----	-----	+-----	-----	*26:05, *26:82 = *26:27, *26:82
++-----	-----	-----	+-----	-----	*26:05, *26:13 = *26:13, *26:27
++-----	-----	-----	+-----	-----	*26:05, *26:49 = *26:27, *26:49
++-----	-----	-----	+-----	-----	*26:05, *26:48 = *26:27, *26:48
++-----	-----	-----	+-----	-----	*26:03:01, *26:34 = *26:03:01, *26:42
++-----	-----	-----	+-----	-----	*26:03:01, *26:65 = *26:30, *26:36
++-----	-----	-----	+-----	-----	*26:30, *26:34 = *26:30, *26:42
++-----	-----	-----	+-----	-----	*26:03:01, *26:22 = *26:03:01, *26:40
++-----	-----	-----	+-----	-----	*26:22, *26:30 = *26:30, *26:40
++-----	-----	-----	+-----	-----	*26:01:01, *26:21 = *26:21, *26:36
++-----	-----	-----	+-----	-----	*26:01:01, *26:06 = *26:06, *26:36



101.424-12 – including Taq polymerase, IFU-01
101.424-12u – without Taq polymerase, IFU-02

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Lot No.: 21S

Lot-specific information

++++	-----	-----	-----	-----	*26:01:01, *26:78 = *26:03:01, *26:04 = *26:36, *26:78
++-+	-----	-----	-----	-----	*26:03:01, *26:19 = *26:06, *26:19
++-----	-----	-----	-----	-----	*26:33, *26:62 = *26:33, *26:72
++-----	-----	-----	-----	-----	*26:33, *26:35 = *26:33, *26:76
++-----	-----	-----	-----	-----	*26:33, *26:34 = *26:33, *26:42
++-----	-----	-----	-----	-----	*26:13, *26:56 = *26:26, *26:33 = *26:33, *26:56
++-----	-----	-----	-----	-----	*26:22, *26:33 = *26:33, *26:40
++-----	-----	-----	-----	-----	*26:15, *26:19 = *26:19, *26:33
++-----	-----	-----	-----	-----	*26:19, *26:34 = *26:19, *26:42
++-----	-----	-----	-----	-----	*26:19, *26:22 = *26:19, *26:40
++-----	-----	-----	-----	-----	*26:07:01, *26:33 = *26:20, *26:33
++-----	-----	-----	-----	-----	*26:29, *26:62 = *26:29, *26:72
++-----	-----	-----	-----	-----	*26:29, *26:35 = *26:29, *26:76
++-----	-----	-----	-----	-----	*26:29, *26:34 = *26:29, *26:42
++-----	-----	-----	-----	-----	*26:26, *26:29 = *26:29, *26:56 = *26:49, *26:56
++-----	-----	-----	-----	-----	*26:22, *26:29 = *26:29, *26:40
++-----	-----	-----	-----	-----	*26:07:01, *26:29 = *26:20, *26:29
++-----	-----	-----	-----	-----	*26:14, *26:62 = *26:14, *26:72
++-----	-----	-----	-----	-----	*26:14, *26:35 = *26:14, *26:76
++-----	-----	-----	-----	-----	*26:14, *26:34 = *26:14, *26:42
++-----	-----	-----	-----	-----	*26:14, *26:22 = *26:14, *26:40
++-----	-----	-----	-----	-----	*26:07:01, *26:14 = *26:14, *26:20
++-----	-----	-----	-----	-----	*26:01:01, *26:18 = *26:11N, *26:18 = *26:12, *26:14 = *26:12, *26:18 = *26:14, *26:18 = *26:16, *26:18 = *26:18, *26:18
++-----	-----	-----	-----	-----	*26:01:01, *26:28 = *26:08, *26:14 = *26:08, *26:28 = *26:11N, *26:28 = *26:14, *26:28 = *26:14, *26:52 = *26:16, *26:28 = *26:28, *26:28 = *26:28, *26:52
++-----	-----	-----	-----	-----	*26:52, *26:62 = *26:52, *26:72
++-----	-----	-----	-----	-----	*26:48, *26:52 = *26:52, *26:59
++-----	-----	-----	-----	-----	*26:35, *26:52 = *26:52, *26:76
++-----	-----	-----	-----	-----	*26:34, *26:52 = *26:42, *26:52
++-----	-----	-----	-----	-----	*26:22, *26:52 = *26:40, *26:52
++-----	-----	-----	-----	-----	*26:07:01, *26:52 = *26:20, *26:52
++-----	-----	-----	-----	-----	*26:05, *26:33 = *26:27, *26:33
++-----	-----	-----	-----	-----	*26:05, *26:29 = *26:27, *26:29
++-----	-----	-----	-----	-----	*26:05, *26:14 = *26:14, *26:27
++-----	-----	-----	-----	-----	*26:05, *26:52 = *26:27, *26:52
++-----	-----	-----	-----	-----	*26:21, *26:34 = *26:21, *26:42
++-----	-----	-----	-----	-----	*26:21, *26:22 = *26:21, *26:40
++-----	-----	-----	-----	-----	*26:13, *26:29 = *26:29, *26:33 = *26:33, *26:49
++-----	-----	-----	-----	-----	*26:18, *26:62 = *26:18, *26:72
++-----	-----	-----	-----	-----	*26:14, *26:49 = *26:18, *26:47 = *26:18, *26:49
++-----	-----	-----	-----	-----	*26:18, *26:35 = *26:18, *26:76
++-----	-----	-----	-----	-----	*26:18, *26:34 = *26:18, *26:42
++-----	-----	-----	-----	-----	*26:18, *26:22 = *26:18, *26:40
++-----	-----	-----	-----	-----	*26:07:01, *26:18 = *26:18, *26:20
++-----	-----	-----	-----	-----	*26:28, *26:62 = *26:28, *26:72
++-----	-----	-----	-----	-----	*26:14, *26:48 = *26:28, *26:48 = *26:28, *26:59
++-----	-----	-----	-----	-----	*26:28, *26:35 = *26:28, *26:76
++-----	-----	-----	-----	-----	*26:28, *26:34 = *26:28, *26:42
++-----	-----	-----	-----	-----	*26:22, *26:28 = *26:28, *26:40
++-----	-----	-----	-----	-----	*26:07:01, *26:28 = *26:20, *26:28
++-----	-----	-----	-----	-----	*26:08, *26:18 = *26:12, *26:28 = *26:18, *26:28 = *26:18, *26:52
++-----	-----	-----	-----	-----	*26:05, *26:18 = *26:18, *26:27
++-----	-----	-----	-----	-----	*26:05, *26:28 = *26:27, *26:28
++-----	-----	-----	-----	-----	*26:14, *26:29 = *26:18, *26:29

*26:01:01=*26:01:01-26:01:27, 26:74-26:75, 26:77, 26:79-26:80 and 26:83-26:84

*26:03:01 = *26:03:01-26:03:02



101.424-12 – including *Taq* polymerase, IFU-01
101.424-12u – without *Taq* polymerase, IFU-02

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Lot No.: 21S**Lot-specific information**

*26:07:01 = *26:07:01-26:07:02
*26:08 = *26:08, 26:67 and 26:81
*26:17 = *26:17 and *26:45
*26:24 = *26:24 and *26:41
*26:25N = *26:25N and *26:38
*26:28 = 26:28 and 26:73
*26:32 = *26:32 and 26:70
*26:43:01 = *26:43:01 and *26:61
*26:46 = *26:46 and *26:53
*26:54 = *26:54 and *26:55
*26:59 = *26:59 and 26:69
*26:62 = *26:62 and *26:63

101.424-12 – including *Taq* polymerase, IFU-01
 101.424-12u – without *Taq* polymerase, IFU-02

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Lot-specific information
SPECIFICITY TABLE

HLA-A*26 SSP subtyping

Specificities and sizes of the PCR products of the 47 primer mixes used for HLA-A*26 SSP subtyping.

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-A*26 alleles ³	Other amplified HLA-A alleles ⁴
1⁶	180 bp	800 bp	*26:01:01-26:01:27, 26:03:01-26:03:02, 26:05, 26:07:01-26:08, 26:10-26:28, 26:29 ^w , 26:30-26:33, 26:35-26:39, 26:41-26:43:02, 26:45-26:48, 26:49 ^w , 26:50-26:77, 26:79-26:84	*02:135, 11:116, 25:01:01-25:05, 25:07-25:17, 25:19-25:22, 31:24-31:25, 32:26, 33:61, 43:01, 66:01, 66:04-66:09, 66:10 ^w , 66:11-66:15, 66:17-66:19
2⁵	80 bp	800 bp	*26:01:01-26:02, 26:04, 26:08-26:18, 26:20, 26:22-26:29, 26:32-26:43:02, 26:45-26:56, 26:58-26:71N, 26:73-26:75, 26:77, 26:79-26:84	*01:51, 33:13, 33:48, 68:84
3	140 bp	1070 bp	*26:02	
4	260 bp	800 bp	*26:03:01-26:03:02, 26:06, 26:21, 26:30, 26:78	*03:09, 03:108, 11:06, 11:18, 29:19, 29:48, 30:13, 30:16, 30:44, 30:46, 33:24, 68:05, 68:15, 68:20, 74:06
5	180 bp	1070 bp	*26:04, 26:78	
6⁵	80 bp	1070 bp	*26:05	
7⁸	150 bp	800 bp	*26:08, 26:28, 26:48, 26:52, 26:67, 26:73, 26:81	*25:04
8	135 bp	1070 bp	*26:11N, 26:14, 26:18, 26:28, 26:52, 26:73	*03:01:19, 25:09, 31:03-31:04, 34:03, 34:06
9¹⁰	145 bp, 190 bp	1070 bp	*26:12, 26:18, 26:29, 26:49	*02:309, 31:03-31:04, 34:06, 66:06, 66:10
10^{5,11}	85 bp,	1070 bp	*26:07:01-26:07:02,	*01:01:13, 01:83:01-01:83:02,

101.424-12 – including *Taq* polymerase, IFU-01
 101.424-12u – without *Taq* polymerase, IFU-02

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Lot-specific information

	260 bp		26:20	02:146
11	140 bp	800 bp	*26:06, 26:19	*31:03
12¹²	135 bp, 240 bp	1070 bp	*26:14, 26:16, 26:18, 26:28, 26:52, 26:73	*01:02, 01:20, 03:01:19, 24:04, 24:109, 24:129, 25:09, 29:37, 30:57, 31:03-31:04, 34:03, 34:06
13^{5,13}	110 bp, 255 bp	1070 bp	*26:17, 26:45	
14	145 bp	1070 bp	*26:10	*02:38, 02:101:01, 02:154, 11:119, 23:10, 24:10:01- 24:10:02, 24:46, 24:210, 68:61
15⁵	100 bp	800 bp	*26:13, 26:19, 26:33	*01:13, 01:17, 03:63, 03:88, 11:01:01-11:11, 11:13-11:16, 11:20-11:27, 11:29-11:39, 11:41-11:52Q, 11:54-11:95, 11:97, 11:99N-11:105, 11:107- 11:120, 11:122-11:133, 11:135- 11:139, 25:02, 34:01:01-34:06, 34:08, 34:10N, 66:01, 66:04, 66:06-66:11, 66:13-66:14, 66:17-66:19
16	430 bp	1070 bp	*26:13, 26:19, 26:33	*02:34 ^w , 02:35:01-02:35:03, 02:56:01 ^w -02:56:02 ^w , 02:62 ^w , 02:78, 02:103 ^w , 23:13, 24:07, 24:19, 24:24, 24:112, 24:131, 34:01:01-34:10N, 66:01-66:02, 66:04, 66:06-66:14, 66:16- 66:19, 68:01:01:01-68:02:05, 68:06-68:14, 68:16-68:19, 68:21:01-68:30, 68:32-68:56, 68:58-68:89, 68:91-68:99, 69:01
17	175 bp	1070 bp	*26:09	*02:309, 03:01:19, 25:06, 31:03-31:04, 34:01:01-34:09
18^{5,6,14}	125 bp, 205 bp	800 bp	*26:21, 26:31	*01:60, C*06:71
19¹⁵	190 bp, 245 bp	800 bp	*26:22, 26:40	*01:20 ^w , 01:66 ^w , 02:38, 02:101:01, 66:09
20⁷	210 bp	1070 bp	*26:23	
21^{5,16}	125 bp, 205 bp	1070 bp	*26:24, 26:41, 26:82	*02:241, 33:31
22^{5,17}	100 bp, 220 bp	1070 bp	*26:25N, 26:38	C*06:75
23¹⁸	130 bp,	1070 bp	*26:26, 26:56, 26:82	

101.424-12 – including *Taq* polymerase, IFU-01
 101.424-12u – without *Taq* polymerase, IFU-02

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	165 bp			
24	305 bp	1070 bp	*26:32, 26:70	*01:03, 11:26, 11:118, 33:13, 36:03, 74:10, C*06:72
25⁸	360 bp	1070 bp	*26:30, 26:65	*02:135, 02:309, 03:01:19, 25:13, 31:04, 34:09, 66:02-66:03, 66:12, 66:16
26¹⁹	150 bp, 175 bp	1070 bp	*26:34, 26:42	
27^{5,20}	125 bp, 275 bp	1070 bp	*26:35, 26:76	
28⁵	90 bp	1070 bp	*26:03:01-26:03:02, 26:06, 26:21, 26:36, 26:78	*01:104, 02:346, 11:06, 25:11, 80:01:01:01
29	330 bp	1070 bp	*26:37	
30^{5,21}	125 bp, 235 bp	1070 bp	*26:15, 26:29, 26:33, 26:56	*11:91, B*35:108:01, B*53:26, C*12:91
31	210 bp	800 bp	*26:39	
32^{5,22}	90 bp, 155 bp	1070 bp	*26:43:01, 26:61	*02:309, 03:01:19, 25:19, 31:03-31:04, 34:02:01, 34:02:03-34:04, 34:06-34:09, 66:06
33^{5,23}	105 bp, 200 bp	1070 bp	*26:46, 26:53	
34²⁴	135 bp, 190 bp	1070 bp	*26:29, 26:47, 26:49	*25:08, 66:10, 66:18
35^{5,25}	110 bp, 245 bp	1070 bp	*26:48, 26:59, 26:69	*34:01:01-34:01:02, 34:05
36^{5,26}	125 bp, 215 bp	1070 bp	*26:54-26:55	*25:05
37²⁷	245 bp, 410 bp	800 bp	*26:50, 26:64	*68:89
38	190 bp	1070 bp	*26:51	
39²⁸	220 bp, 410 bp	1070 bp	*26:62-26:64, 26:72	*23:09, 24:129, 24:181, 68:89
40⁵	90 bp	1070 bp	*26:57	*68:86
41	140 bp	1070 bp	*26:60N	
42	460 bp	1070 bp	*26:58	*02:81, 02:87, 02:112, 02:124, 02:129, 02:136, 23:01:01- 23:56, 24:02:01:01-24:02:32, 24:02:34-24:03:02, 24:05-24:11N, 24:13:01-24:15,

101.424-12 – including *Taq* polymerase, IFU-01
 101.424-12u – without *Taq* polymerase, IFU-02

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Lot No.: **21S**

Lot-specific information

				24:17-24:18, 24:20-24:25, 24:27, 24:29-24:43, 24:45N- 24:64, 24:66-24:88, 24:90N- 24:99, 24:101-24:108, 24:110- 24:128, 24:130-24:183N, 24:185N-24:210, 24:212- 24:213, 24:215-24:230, 25:01:01-25:22, 68:36
43	135 bp	1070 bp	*26:14, 26:18, 26:28, 26:73	*03:01:19, 25:09, 31:03-31:04, 34:03, 34:06
44⁵	105 bp	1070 bp	*26:68	
45	365 bp	1070 bp	*26:71N	*68:94N
46	155 bp	1070 bp	*26:43:02	*34:02:02
47	425 bp	1070 bp	*26:66	

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-A*26 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-A*26 subtyping.

In addition, wells number 2, 4, 7, 11, 15, 18, 19, 31 and 37 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

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

³For several HLA 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-A alleles non-HLA-A*26 alleles will be amplified by primer mixes 1, 2, 4, 7 to 12, 14 to 19, 21, 24, 25, 28, 30, 32, 34 to 37, 39, 40, 42, 43, 45 and 46. In addition, primer mix 18 will amplify the C*06:71 allele, primer mix 22 will amplify the C*06:75 allele, primer mix 24 will amplify the C*06:72 allele and primer mix 30 will amplify the B*35:108:01, B*53:26 and C*12:91 alleles.

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

⁶Primer mixes 1 and 18 have a tendency to giving rise to primer oligomer formation.

101.424-12 – including *Taq* polymerase, IFU-01
101.424-12u – without *Taq* polymerase, IFU-02

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Lot No.: 21S**Lot-specific information**

⁷Primer mix 20 may have tendencies of unspecific amplifications.

⁸Primer mixes 7 and 25 may give rise to a lower yield of HLA-specific PCR product than the other A*26 primer mixes.

¹⁰Primer mix 9: Specific PCR fragment of 145 bp in the A*26:12 and 26:18 and in the A*02:309, 31:03-31:04, 34:06 and 66:06 alleles. Specific PCR fragment of 190 bp in the A*26:29 and 26:49 and in the A*66:10 alleles.

¹¹Primer mix 10: Specific PCR fragment of 85 bp in the A*26:07:01-26:07:02 and in the 01:83:01-01:83:02 and 02:146 alleles. Specific PCR fragment of 260 bp in the A*26:20 and in the A*01:01:13 alleles. Specific PCR fragments of 85 and 260 bp in the A*02:146 allele.

¹²Primer mix 12: Specific PCR fragment of 135 bp in the A*26:14, 26:18, 26:28, 26:52 and 26:73 and in the A*03:01:19, 25:09, 31:03-31:04, 34:03 and 34:06 alleles. Specific PCR fragment of 240 bp in the A*26:16 and in the A*01:02, 01:20, 24:04, 24:109, 24:129, 29:37 and 30:57 alleles.

¹³Primer mix 13: Specific PCR fragment of 110 bp in the A*26:45 allele. Specific PCR fragment of 255 bp in the A*26:17 allele.

¹⁴Primer mix 18: Specific PCR fragment of 125 bp in the A*26:31 and the A*01:60 and in the C*06:71 alleles. Specific PCR fragment of 205 bp in the A*26:21 allele.

¹⁵Primer mix 19: Specific PCR fragment of 190 bp in the A*26:40 allele. Specific PCR fragment of 245 bp in the A*26:22 and in the A*01:20^w, 01:66^w, 02:38, 02:101:01 and 66:09 alleles.

¹⁶Primer mix 21: Specific PCR fragment of 125 bp in the A*26:24 and 26:82 and the A*02:241 and 33:31 alleles. Specific PCR fragment of 205 bp in the A*26:41 allele.

¹⁷Primer mix 22: Specific PCR fragment of 100 bp in the A*26:25N allele. Specific PCR fragment of 220 bp in the A*26:38 and in the C*06:75 allele.

¹⁸Primer mix 23: Specific PCR fragment of 130 bp in the A*26:56 and 26:82 alleles. Specific PCR fragment of 165 bp in the A*26:26 allele.

¹⁹Primer mix 26: Specific PCR fragment of 150 bp in the A*26:42 allele. Specific PCR fragment of 175 bp in the A*26:34 allele.

²⁰Primer mix 27: Specific PCR fragment of 125 bp in the A*26:76 allele. Specific PCR fragment of 275 bp in the A*26:35 allele.

²¹Primer mix 30: Specific PCR fragment of 125 bp in the A*26:15, 26:29 and 26:56 and in the A*11:91 and the B*35:108:01, B*53:26 and C*12:91 alleles. Specific PCR fragment of 235 bp in the A*26:33 allele.

²²Primer mix 32: Specific PCR fragment of 90 bp in the A*26:61 allele. Specific PCR fragment of 155 bp in the A*26:43:01 and the A*02:309, 03:01:19, 25:19, 31:03-31:04, 34:02:01, 34:02:03-34:04, 34:06-34:09 and 66:06 alleles.

²³Primer mix 33: Specific PCR fragment of 105 bp in the A*26:46 allele. Specific PCR fragment of 200 bp in the A*26:53 allele.

²⁴Primer mix 34: Specific PCR fragment of 135 bp in the A*26:47 and the A*25:08 and 66:18 alleles. Specific PCR fragment of 190 bp in the A*26:29 and 26:49 and the A*66:10 alleles.

²⁵Primer mix 35: Specific PCR fragment of 110 bp in the A*26:48 and 26:69 and the A*34:01:01-34:01:02 and 34:05 alleles. Specific PCR fragment of 245 bp in the A*26:59 allele.

²⁶Primer mix 36: Specific PCR fragment of 125 bp in the A*26:54 and the A*25:05 alleles. Specific PCR fragment of 215 bp in the A*26:55 allele.

²⁷Primer mix 37: Specific PCR fragment of 245 bp in the A*26:50 allele. Specific PCR fragment of 410 bp in the A*26:64 and the A*68:89 allele.

²⁸Primer mix 39: Specific PCR fragment of 220 bp in the A*26:63 and the A*24:181 alleles. Specific PCR fragment of 410 bp in the A*26:62, 26:64 and 26:72 and the A*23:09, 24:129 and 68:89 alleles. ‘w’, may be weakly amplified.

101.424-12 – including *Taq* polymerase, IFU-01
 101.424-12u – without *Taq* polymerase, IFU-02

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Lot-specific information

INTERPRETATION TABLE																									
HLA-A*26 SSP subtyping																									
Amplification patterns of the A*26:01 to 26:84 alleles																									
	Well ¹⁴																								
	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.	180	80	140	260	180	80	150	135	145	85	140	135	110	145	100	430	175	125	190	210	125	100	130	305	
PCR product(s)						160			190	260		240	255					205	245		205	220	165		
Length of int.	800	800	1070	800	1070	1070	800	1070	1070	1070	800	1070	1070	1070	800	1070	1070	800	800	1070	1070	1070	1070	1070	
pos. control ¹																									
5'-primer(s) ²	5'-Agg ³ 418	5'-AAC ³ 261	5'-AgA ³ 418	5'-C ³ 74	5'-gCT ³ 423	5'-AAC ³ 261	5'-gCT ³ 423	5'-gCT ³ 423	5'-gCT ³ 423	5'-TCT ³ 78	5'-CCT ³ 243	5'-CTC ³ 98	5'-ATg ³ 228	5'-AAA ³ 453	5'-CAG ³ 282	5'-TCg ³ 28	5'-gCT ³ 423	5'-CCC ³ 257	5'-CCg ³ 355	5'-CgA ³ 392	5'-gCA ³ 395	5'-ACT ³ 160	5'-CTg ³ 652	5'-ggA ³ 341	
				5'-TCC ³ 78		5'-gCT ³ 423				5'-Cgg ³ 257	5'-gCg ³ 416	5'-gCT ³ 423	5'-gTA ³ 346					5'-gCT ³ 423	5'-gTT ³ 410		5'-CTg ³ 652	5'-CCC ³ 280			
3'-primer(s) ³	5'-CCT ³ 559	5'-TCg ³ 299	5'-CgT ³ 517	5'-gTg ³ 292	5'-ACA ³ 560	5'-TCT ³ 299	5'-CAC ³ 524	5'-gga ³ 517	5'-CCA ³ 527	5'-TCg ³ 299	5'-CgT ³ 341	5'-TCg ³ 299	5'-TCg ³ 299	5'-CCg ³ 559	5'-CgT ³ 341	5'-gAC ³ 282	5'-CgT ³ 559	5'-CgT ³ 341	5'-CCg ³ 559	5'-CCg ³ 559	5'-CCg ³ 559	5'-CgT ³ 341	5'-TCC ³ 743	5'-TCA ³ 362	
						5'-CTT ³ 542	5'-CTg ³ 538	5'-CAC ³ 524			5'-CgT ³ 517	5'-CgC ³ 517	5'-CCg ³ 559	5'-CCg ³ 559	5'-gAA ³ 290			5'-CTT ³ 589			5'-CCT ³ 728		5'-ggT ³ 746		
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-A allele ^{4,5}																									
*26:01:01-26:01:27, 26:27, 26:74-26:75, 26:77, 26:79-26:80, 26:83- 26:84 ¹⁵	1	2																							
*26:02		2	3																						
*26:03:01-26:03:02	1			4																					
*26:04		2			5																				
*26:05	1					6																			
*26:06				4							11														
*26:07:01-26:07:02	1									10															
*26:08, 26:67, 26:81	1	2					7																		
*26:09		2																17							
*26:10	1	2												14											
*26:11N	1	2						8																	
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	



101.424-12 – including *Taq* polymerase, IFU-01
 101.424-12u – without *Taq* polymerase, IFU-02

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Lot-specific information

INTERPRETATION TABLE																																																
HLA-A*26 SSP subtyping																																																
Amplification patterns of the A*26:01 to 26:84 alleles																																																
Well ¹⁴																																																
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47																										
	360	150	125	90	330	125	210	90	105	135	110	125	245	190	220	90	140	460	135	105	365	155	425	Length of spec.																								
	1070	1070	1070	1070	1070	800	1070	1070	1070	1070	1070	1070	800	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	PCR product(s)																								
																								Length of int.																								
																								pos. control ¹																								
	5'-ggC ^{3'}	5'-CTA ^{3'}	5'-CCA ^{3'}	5'-CTC ^{3'}	5'-TCg ^{3'}	5'-CTA ^{3'}	5'-ACC ^{3'}	5'-gCT ^{3'}	5'-CCA ^{3'}	5'-gCT ^{3'}	5'-gCT ^{3'}	5'-TCg ^{3'}	5'-CgA ^{3'}	5'-TCg ^{3'}	5'-AAC ^{3'}	5'-CCT ^{3'}	5'-TCg ^{3'}	5'-gCT ^{3'}	5'-gCT ^{3'}	5'-TCg ^{3'}	5'-gCT ^{3'}	5'-TCg ^{3'}	5'-primer(s) ²																									
		423	255			652			495		270	353											3'-primer(s) ³																									
		5'-gCT ^{3'}	5'-gAg ^{3'}			5'-CTg ^{3'}			5'-CAC ^{3'}		5'-AAA ^{3'}	5'-Cag ^{3'}											Well No.																									
	418	208	341	341	186	180	559	472	559	518	341	506	265	341	77	311	426	319	517	486	224	538	283	HLA-A allele ^{4,5}																								
	5'-gTC ^{3'}	5'-CCA ^{3'}	5'-CgT ^{3'}	5'-CgT ^{3'}	5'-TCC ^{3'}	5'-TCC ^{3'}	5'-CCg ^{3'}	5'-ggC ^{3'}	5'-CCg ^{3'}	5'-CCA ^{3'}	5'-CgT ^{3'}	5'-TgT ^{3'}	5'-CCA ^{3'}	5'-CgT ^{3'}	5'-ggC ^{3'}	5'-ggA ^{3'}	5'-TCC ^{3'}	5'-gCg ^{3'}	5'-CgC ^{3'}	5'-gCg ^{3'}	5'-TCT ^{3'}	5'-Cag ^{3'}	5'-TgC ^{3'}	*26:01:01-26:01:27, 26:27, 26:74-26:75, 26:77, 26:79-26:80, 26:83- 26:84 ¹⁵																								
	5'-CCA ^{3'}	5'-CCA ^{3'}		5'-CgT ^{3'}	5'-TCC ^{3'}	5'-gAA ^{3'}		5'-CAA ^{3'}		5'-CCg ^{3'}		5'-CCA ^{3'}	5'-CCg ^{3'}	5'-CAT ^{3'}									*26:02																									
																								*26:03:01-26:03:02																								
				28																				*26:04																								
																								*26:05																								
																								*26:06																								
																								*26:07:01-26:07:02																								
																								*26:08, 26:67, 26:81																								
																								*26:09																								
																								*26:10																								
																								*26:11N																								
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.																									



101.424-12 – including *Taq* polymerase, IFU-01
 101.424-12u – without *Taq* polymerase, IFU-02

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

Lot No.: **21S**

Lot-specific information

Length of spec.	180	80	140	260	180	80	150	135	145	85	140	135	110	145	100	430	175	125	190	210	125	100	130	305	
PCR product(s)						160			190	260		240	255					205	245		205	220	165		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
*26:12	1	2							9																
*26:13	1	2													15	16									
*26:14	1	2						8				12													
*26:15	1	2																							
*26:16	1	2										12													
*26:17, 26:45 ⁶	1	2											13												
*26:18	1	2					8	9				12													
*26:19	1										11				15	16									
*26:20	1	2							10																
*26:21	1			4														18							
*26:22	1	2																	19						
*26:23	1	2																		20					
*26:24, 26:41 ⁷	1	2																			21				
*26:25N, 26:38 ⁸	1	2																				22			
*26:26	1	2																					23		
*26:28, 26:73	1	2					7	8				12													
*26:29	w	2							9																
*26:30	1			4																					
*26:31	1																	18							
*26:32, 26:70	1	2																						24	
*26:33	1	2													15	16									
*26:34		2																							
*26:35	1	2																							
*26:36	1	2																							
*26:37	1	2																							
*26:39	1	2																							
*26:40		2																	19						
*26:42	1	2																							
*26:43:01, 26:61 ⁹	1	2																							
*26:43:02	1	2																							
*26:46, 26:53 ¹⁰	1	2																							
*26:47	1	2																							
*26:48	1	2					7																		
*26:49	w	2							9																
*26:50	1	2																							
*26:51	1	2																							
*26:52	1	2					7	8				12													
*26:54-26:55 ¹¹	1	2																							
*26:56	1	2																						23	
*26:57	1																								
*26:58	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	

101.424-12 – including *Taq* polymerase, IFU-01
 101.424-12u – without *Taq* polymerase, IFU-02

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

Lot No.: **21S**

Lot-specific information

360	150	125	90	330	125	210	90	105	135	110	125	245	190	220	90	140	460	135	105	365	155	425	Length of spec.	
	175	275			235		155	200	190	245	215	410		410										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.	
																								*26:12
																								*26:13
																		43						*26:14
					30																			*26:15
																								*26:16
																		43						*26:17, 26:45 ⁶
																								*26:18
																								*26:19
			28																					*26:20
																								*26:21
																								*26:22
																								*26:23
																								*26:24, 26:41 ⁷
																								*26:25N, 26:38 ⁸
																		43						*26:26
																								*26:28, 26:73
25					30				34															*26:29
																								*26:30
																								*26:31
																								*26:32, 26:70
	26				30																			*26:33
		27																						*26:34
			28																					*26:35
				29																				*26:36
						31																		*26:37
																								*26:39
	26																							*26:40
																								*26:42
							32															46		*26:43:01, 26:61 ⁹
																								*26:43:02
								33																*26:46, 26:53 ¹⁰
									34															*26:47
										35														*26:48
									34															*26:49
												37												*26:50
													38											*26:51
											36													*26:52
					30																			*26:54-26:55 ¹¹
															40									*26:56
																								*26:57
																	42							*26:58
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.	

101.424-12 – including *Taq* polymerase, IFU-01
 101.424-12u – without *Taq* polymerase, IFU-02

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

Lot No.: **21S**

Lot-specific information

Length of spec.	180	80	140	260	180	80	150	135	145	85	140	135	110	145	100	430	175	125	190	210	125	100	130	305	
PCR product(s)						160			190	260		240	255					205	245		205	220	165		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
*26:59, 26:69 ¹²	1	2																							
*26:60N	1	2																							
*26:62-26:63 ¹³	1	2																							
*26:64	1	2																							
*26:65	1	2																							
*26:66	1	2																							
*26:68	1	2																							
*26:71N	1	2																							
*26:72	1																								
*26:76	1																								
*26:78				4	5																				
*26:82	1	2																				21	23		
*01:01:13, 01:83:01-01:83:02, 02:146										10															
*01:02, 24:04, 24:109, 29:37, 30:57												12													
*01:03, 36:03, 74:10, C*06:72																								24	
*01:13, 01:17, 03:63, 03:88, 11:01:01-11:05, 11:07-11:11, 11:13-11:16, 11:20-11:25, 11:27, 11:29-11:39, 11:41-11:52Q, 11:54-11:90, 11:92-11:95, 11:97, 11:99N-11:105, 11:107-11:115N, 11:117, 11:120, 11:122-11:133, 11:135-11:139															15										
*01:20												12							w						
*01:51, 33:48		2																							
*01:60, C*06:71																			18						
*01:66																			w						
*01:104, 02:346, 80:01:01:01																									
*02:34, 02:56:01-02:56:02, 02:62, 02:103																w									
*02:35:01-02:35:03, 02:78, 24:19, 68:01:01:01-68:02:05, 68:06-68:14, 68:16-68:19, 68:21:01-68:30, 68:32-68:35, 68:37-68:56, 68:58-68:60, 68:62-68:83, 68:85, 68:87-68:88, 68:91-68:93, 68:95-68:99, 69:01																16									
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	

101.424-12 – including *Taq* polymerase, IFU-01
 101.424-12u – without *Taq* polymerase, IFU-02

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

Lot No.: **21S**

Lot-specific information

360				330				200				140				365				Length of spec. PCR product(s)				
175	150	125	90	235	125	210	90	105	135	110	125	410	245	190	220	90	140	460	135		105	45	155	425
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.	
										35								41						*26:59, 26:69 ¹²
																								*26:60N
														39										*26:62-26:63 ¹³
												37		39										*26:64
25																								*26:65
																						47		*26:66
																						44		*26:68
																					45			*26:71N
														39										*26:72
		27																						*26:76
			28																					*26:78
																								*26:82
																								*01:01:13, 01:83:01- 01:83:02, 02:146
																								*01:02, 24:04, 24:109, 29:37, 30:57
																								*01:03, 36:03, 74:10, C*06:72
																								*01:13, 01:17, 03:63, 03:88, 11:01:01-11:05, 11:07-11:11, 11:13-11:16, 11:20-11:25, 11:27, 11:29- 11:39, 11:41-11:52Q, 11:54-11:90, 11:92-11:95, 11:97, 11:99N-11:105, 11:107-11:115N, 11:117, 11:120, 11:122-11:133, 11:135-11:139
																								*01:20
																								*01:51, 33:48
																								*01:60, C*06:71
																								*01:66
			28																					*01:104, 02:346, 80:01:01:01
																								*02:34, 02:56:01- 02:56:02, 02:62, 02:103
																								*02:35:01-02:35:03, 02:78, 24:19, 68:01:01:01- 68:02:05, 68:06-68:14, 68:16-68:19, 68:21:01- 68:30, 68:32-68:35, 68:37- 68:56, 68:58-68:60, 68:62- 68:83, 68:85, 68:87- 68:88, 68:91-68:93, 68:95- 68:99, 69:01
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.	

101.424-12 – including *Taq* polymerase, IFU-01
 101.424-12u – without *Taq* polymerase, IFU-02

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

Lot No.: **21S**

Lot-specific information

Length of spec.	180	80	140	260	180	80	150	135	145	85	140	135	110	145	100	430	175	125	190	210	125	100	130	305	
PCR product(s)						160			190	260		240	255					205	245		205	220	165		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
*02:38, 02:101:01														14					19						
*02:81, 02:87, 02:112, 02:124, 02:129, 02:136, 23:01:01-23:08N, 23:11N- 23:12, 23:14:01-23:56, 24:02:01:01-24:02:32, 24:02:34-24:03:02, 24:05- 24:06, 24:08-24:09N, 24:11N, 24:13:01-24:15, 24:17-24:18, 24:20-24:23, 24:25, 24:27, 24:29- 24:43, 24:45N, 24:47- 24:64, 24:66-24:88, 24:90N-24:99, 24:101- 24:108, 24:110-24:111, 24:113-24:128, 24:130, 24:132N-24:180, 24:182- 24:183N, 24:185N- 24:209, 24:212-24:213, 24:215-24:230, 25:18																									
*02:135	1																								
*02:154														14											
*02:241, 33:31																					21				
*02:309									9								17								
*03:01:19								8				12					17								
*03:09, 03:108, 11:18, 29:19, 29:48, 30:13, 30:16, 30:44, 30:46, 33:24, 68:05, 68:15, 68:20, 74:06				4																					
*11:06				4											15										
*11:26, 11:118														15										24	
*11:91														15											
*11:116	1													15											
*11:119														14	15										
*23:09, 24:181																									
*23:10, 24:10:01- 24:10:02, 24:46, 24:210														14											
*23:13, 24:07, 24:24, 24:112, 24:131, 68:36																16									
*24:129												12													
*25:01:01-25:01:07, 25:03, 25:07, 25:10, 25:12N, 25:14-25:17, 25:20-25:22	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	

101.424-12 – including *Taq* polymerase, IFU-01
 101.424-12u – without *Taq* polymerase, IFU-02

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

Lot No.: **21S**

Lot-specific information

360	150	125	90	330	125	210	90	105	135	110	125	245	190	220	90	140	460	135	105	365	155	425	Length of spec.	
175	275			235		155	200	190	245	215	410		410											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.	
																							*02:38, 02:101:01	
																	42						*02:81, 02:87, 02:112, 02:124, 02:129, 02:136, 23:01:01-23:08N, 23:11N- 23:12, 23:14:01-23:56, 24:02:01:01-24:02:32, 24:02:34-24:03:02, 24:05- 24:06, 24:08-24:09N, 24:11N, 24:13:01-24:15, 24:17-24:18, 24:20-24:23, 24:25, 24:27, 24:29- 24:43, 24:45N, 24:47- 24:64, 24:66-24:88, 24:90N-24:99, 24:101- 24:108, 24:110-24:111, 24:113-24:128, 24:130, 24:132N-24:180, 24:182- 24:183N, 24:185N- 24:209, 24:212-24:213, 24:215-24:230, 25:18	
25																							*02:135	
																							*02:154	
							32																*02:241, 33:31	
25																							*02:309	
25							32											43					*03:01:19	
																							*03:09, 03:108, 11:18, 29:19, 29:48, 30:13, 30:16, 30:44, 30:46, 33:24, 68:05, 68:15, 68:20, 74:06	
			28																				*11:06	
																							*11:26, 11:118	
					30																		*11:91	
																							*11:116	
																							*11:119	
													39				42						*23:09, 24:181	
																	42						*23:10, 24:10:01- 24:10:02, 24:46, 24:210	
																	42						*23:13, 24:07, 24:24, 24:112, 24:131, 68:36	
													39										*24:129	
																	42						*25:01:01-25:01:07, 25:03, 25:07, 25:10, 25:12N, 25:14-25:17, 25:20-25:22	
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.	

101.424-12 – including *Taq* polymerase, IFU-01
 101.424-12u – without *Taq* polymerase, IFU-02

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

Lot No.: **21S**

Lot-specific information

Length of spec.	180	80	140	260	180	80	150	135	145	85	140	135	110	145	100	430	175	125	190	210	125	100	130	305	
PCR product(s)						160			190	260		240	255					205	245		205	220	165		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
*25:02	1														15										
*25:04	1						7																		
*25:05	1																								
*25:06																	17								
*25:08	1																								
*25:09	1							8				12													
*25:11	1																								
*25:13	1																								
*25:19	1																								
*31:03								8	9		11	12					17								
*31:04								8	9			12					17								
*31:24-31:25, 32:26, 33:61, 43:01, 66:05, 66:15	1																								
*33:13		2																							24
*34:01:01-34:01:02, 34:05															15	16	17								
*34:02:01, 34:02:03, 34:04, 34:08															15	16	17								
*34:02:02															15	16	17								
*34:03								8				12			15	16	17								
*34:06								8	9			12			15	16	17								
*34:07																	16	17							
*34:09																	16	17							
*34:10N															15	16									
*66:01, 66:04, 66:07- 66:08, 66:11, 66:13- 66:14, 66:17, 66:19	1														15	16									
*66:02, 66:16																16									
*66:03																									
*66:06	1								9						15	16									
*66:09	1														15	16		19							
*66:10	w								9						15	16									
*66:12	1															16									
*66:18	1														15	16									
*68:61														14	16										
*68:84		2														16									
*68:86																16									
*68:89																16									
*68:94N																16									
<i>B*35:108:01, B*53:26, C*12:91</i>																									
<i>C*06:75</i>																							22		
HLA-A 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	

101.424-12 – including *Taq* polymerase, IFU-01
 101.424-12u – without *Taq* polymerase, IFU-02

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

Lot No.: **21S**

Lot-specific information

360				330				200				140				Length of spec.								
175	150	125	90	235	125	210	90	105	135	110	125	410	245	190	220	90	140	460	135	105	365	155	425	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.	
																	42							*25:02
																	42							*25:04
											36						42							*25:05
																	42							*25:06
									34								42							*25:08
																	42	43						*25:09
			28														42							*25:11
25																	42							*25:13
							32										42							*25:19
							32											43						*31:03
25							32											43						*31:04
																								*31:24-31:25, 32:26, 33:61, 43:01, 66:05, 66:15
																								*33:13
											35													*34:01:01-34:01:02, 34:05
							32																	*34:02:01, 34:02:03, 34:04, 34:08
																					46			*34:02:02
							32											43						*34:03
							32											43						*34:06
							32																	*34:07
25							32																	*34:09
																								*34:10N
																								*66:01, 66:04, 66:07-66:08, 66:11, 66:13-66:14, 66:17, 66:19
25																								*66:02, 66:16
25																								*66:03
							32																	*66:06
																								*66:09
											34													*66:10
25																								*66:12
											34													*66:18
																								*68:61
																								*68:84
																40								*68:86
													37		39									*68:89
																					45			*68:94N
							30																	<i>B*35:108:01, B*53:26, C*12:91</i>
																								<i>C*06:75</i>
																							HLA-A allele	
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.	

101.424-12 – including **Taq** polymerase, IFU-01
 101.424-12u – without **Taq** polymerase, IFU-02

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

Lot No.: 21S**Lot-specific information**

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-A*26 subtyping. .

In addition, wells number 2, 4, 7, 11, 15, 18, 19 and 31 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 exons or in 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 4th exons, 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 A*26:44 sequence has been renamed A*26:43:02.

⁵HLA-A*26 alleles in bold lettering are listed as confirmed alleles on the on the IMGT/HLA web page www.ebi.ac.uk/imgt/hla, release 3.11.0, January 2013.

⁶The A*26:17 and A*26:45 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 13.

⁷The A*26:24 and A*26:41 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 21.

⁸The A*26:25N and A*26:38 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 22.

⁹The A*26:43:01 and A*26:61 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 32.

¹⁰The A*26:46 and A*26:53 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 33.

¹¹The A*26:54 and A*26:55 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 36.

¹²The A*26:59 and A*26:69 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 35.

¹³The A*26:62 and A*26:63 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 39.

¹⁴Primer mix 9: Specific PCR fragment of 145 bp in the A*26:12 and 26:18 and in the A*02:309, 31:03-31:04, 34:06 and 66:06 alleles. Specific PCR fragment of 190 bp in the A*26:29 and 26:49 and in the A*66:10 alleles.

Primer mix 10: Specific PCR fragment of 85 bp in the A*26:07:01-26:07:02 and in the 01:83:01-01:83:02 and 02:146 alleles. Specific PCR fragment of 260 bp in the A*26:20 and in the A*01:01:13 alleles. Specific PCR fragments of 85 and 260 bp in the A*02:146 allele.

Primer mix 12: Specific PCR fragment of 135 bp in the A*26:14, 26:18, 26:28, 26:52 and 26:73 and in the A*03:01:19, 25:09, 31:03-31:04, 34:03 and 34:06 alleles. Specific PCR fragment of 240 bp in the A*26:16 and in the A*01:02, 01:20, 24:04, 24:109, 24:129, 29:37 and 30:57 alleles.

Primer mix 13: Specific PCR fragment of 110 bp in the A*26:45 allele. Specific PCR fragment of 255 bp in the A*26:17 allele.

Primer mix 18: Specific PCR fragment of 125 bp in the A*26:31 and the A*01:60 and in the C*06:71 alleles. Specific PCR fragment of 205 bp in the A*26:21 allele.

Primer mix 19: Specific PCR fragment of 190 bp in the A*26:40 allele. Specific PCR fragment of 245 bp in the A*26:22 and in the A*01:20^w, 01:66^w, 02:38, 02:101:01 and 66:09 alleles.

Primer mix 21: Specific PCR fragment of 125 bp in the A*26:24 and 26:82 and the A*02:241 and 33:31 alleles. Specific PCR fragment of 205 bp in the A*26:41 allele.

Primer mix 22: Specific PCR fragment of 100 bp in the A*26:25N allele. Specific PCR fragment of 220 bp in the A*26:38 and in the C*06:75 allele.

Primer mix 23: Specific PCR fragment of 130 bp in the A*26:56 and 26:82 alleles. Specific PCR fragment of 165 bp in the A*26:26 allele.

101.424-12 – including *Taq* polymerase, IFU-01
101.424-12u – without *Taq* polymerase, IFU-02

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Lot No.: 21S**Lot-specific information**

Primer mix 26: Specific PCR fragment of 150 bp in the A*26:42 allele. Specific PCR fragment of 175 bp in the A*26:34 allele.

Primer mix 27: Specific PCR fragment of 125 bp in the A*26:76 allele. Specific PCR fragment of 275 bp in the A*26:35 allele.

Primer mix 30: Specific PCR fragment of 125 bp in the A*26:15, 26:29 and 26:56 and in the A*11:91 and the B*35:108:01, B*53:26 and C*12:91 alleles. Specific PCR fragment of 235 bp in the A*26:33 allele.

Primer mix 32: Specific PCR fragment of 90 bp in the A*26:61 allele. Specific PCR fragment of 155 bp in the A*26:43:01 and the A*02:309, 03:01:19, 25:19, 31:03-31:04, 34:02:01, 34:02:03-34:04, 34:06-34:09 and 66:06 alleles.

Primer mix 33: Specific PCR fragment of 105 bp in the A*26:46 allele. Specific PCR fragment of 200 bp in the A*26:53 allele.

Primer mix 34: Specific PCR fragment of 135 bp in the A*26:47 and the A*25:08 and 66:18 alleles. Specific PCR fragment of 190 bp in the A*26:29 and 26:49 and the A*66:10 alleles.

Primer mix 35: Specific PCR fragment of 110 bp in the A*26:48 and 26:69 and the A*34:01:01-34:01:02 and 34:05 alleles. Specific PCR fragment of 245 bp in the A*26:59 allele.

Primer mix 36: Specific PCR fragment of 125 bp in the A*26:54 and the A*25:05 alleles. Specific PCR fragment of 215 bp in the A*26:55 allele.

Primer mix 37: Specific PCR fragment of 245 bp in the A*26:50 allele. Specific PCR fragment of 410 bp in the A*26:64 and the A*68:89 allele.

Primer mix 39: Specific PCR fragment of 220 bp in the A*26:63 and the A*24:181 alleles. Specific PCR fragment of 410 bp in the A*26:62, 26:64 and 26:72 and the A*23:09, 24:129 and 68:89 alleles.

¹⁵This lot of the HLA-A*26 subtyping kit cannot distinguish the A*26:01 alleles and the A*26:27 allele.

'w', may be weakly amplified.

101.424-12 – including *Taq* polymerase, IFU-01
 101.424-12u – without *Taq* polymerase, IFU-02

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Lot No.: **21S**

Lot-specific information

CELL LINE VALIDATION SHEET																			
HLA-A*26 SSP subtyping kit																			
			Prod. No.:	Well															
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				201183101	201072702	201072703	201072704	201072705	201072706	201072707	201072708	201072709	201072710	201317211	201072712	201072713	201072714	201072715	201072716
	IHWC cell line	A*																	
1	9001 SA	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*30:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*02:01	*26:03	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*26:01		+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*26:01		+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:01	*80:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*33:03	*74:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*02:17		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*02:01	*34:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+
24	9035 JBUSH	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*33:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*02:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*24:10	*29:01	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
28	9320 BEL5GB	*02:01	*29:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*30:01	*68:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
31	9019 DUCAF	*30:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*02:06	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
37	9065 HHKB	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*02:17		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*01:01	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*02:07	*30:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*02:07		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*02:06	*02:07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*66:01		+	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+
45	9239 SHJO	*23:01	*24:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*02:16	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*02:01	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-

101.424-12 – including *Taq* polymerase, IFU-01
 101.424-12u – without *Taq* polymerase, IFU-02

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Lot No.: **21S**

Lot-specific information

CELL LINE VALIDATION SHEET																			
HLA-A*26 SSP subtyping kit				Well															
			Prod. No.:	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
				201072717	201183118	201072719	201072720	201317221	201072722	201317223	201072724	201072725	201072726	201317227	201072728	201299729	201183130	201072731	201183132
	IHWC cell line	A*																	
1	9001 SA	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*30:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*02:01	*26:03	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
7	9020 QBL	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9007 DEM	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:01	*80:01	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
18	9257 32367	*33:03	*74:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*02:17		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*02:01	*34:01	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*33:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*02:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*24:10	*29:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*02:01	*29:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*30:01	*68:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*30:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*02:06	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*02:17		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*01:01	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*02:07	*30:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*02:07		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*02:06	*02:07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*66:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*23:01	*24:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*02:16	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*02:01	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.424-12 – including *Taq* polymerase, IFU-01
 101.424-12u – without *Taq* polymerase, IFU-02

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Lot No.: **21S**

Lot-specific information

CELL LINE VALIDATION SHEET																			
HLA-A*26 SSP subtyping kit																			
				Well															
				33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	
				Prod. No.:	201183133	201183134	201183135	201183136	201317237	201183138	201183139	201183140	201183141	201183142	201183143	201299744	201299745	201299746	201299747
	IHWC cell line	A*																	
1	9001 SA	*24:02		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
2	9280 LK707	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*30:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*02:01	*26:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9007 DEM	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*24:02		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
11	9051 PITOUT	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*24:02		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
16	9037 SWEIG007	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:01	*80:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*33:03	*74:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*02:17		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*02:01	*34:01	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*33:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*02:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*24:10	*29:01	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
28	9320 BEL5GB	*02:01	*29:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*30:01	*68:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*30:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*02:06	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*02:17		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*01:01	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*02:07	*30:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*02:07		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*02:06	*02:07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*66:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*23:01	*24:02	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
46	9013 SCHU	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*02:16	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*02:01	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.424-12 – including *Taq* polymerase, IFU-01
 101.424-12u – without *Taq* polymerase, IFU-02

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

Lot No.: **21S**

Lot-specific information

CERTIFICATE OF ANALYSIS

Olerup SSP[®] HLA-A*26 SSP

Product number: **101.424-12 – including *Taq* polymerase
 101.424-12u- without *Taq* polymerase**

Lot number: **21S**

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	2011-831-01	17	2010-727-17	33	2011-831-33
2	2010-727-02	18	2011-831-18	34	2011-831-34
3	2010-727-03	19	2010-727-19	35	2011-831-35
4	2010-727-04	20	2010-727-20	36	2011-831-36
5	2010-727-05	21	2013-172-21	37	2011-831-37
6	2010-727-06	22	2010-727-22	38	2011-831-38
7	2010-727-07	23	2013-172-23	39	2011-831-39
8	2010-727-08	24	2010-727-24	40	2011-831-40
9	2010-727-09	25	2010-727-25	41	2011-831-41
10	2010-727-10	26	2010-727-26	42	2011-831-42
11	2013-172-11	27	2013-172-27	43	2011-831-43
12	2010-727-12	28	2010-727-28	44	2012-997-44
13	2010-727-13	29	2012-997-29	45	2012-997-45
14	2010-727-14	30	2011-831-30	46	2012-997-46
15	2010-727-15	31	2010-727-31	47	2012-997-47
16	2010-727-16	32	2011-831-32		

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 8 to 11, 13, 18 to 23, 26, 27, 29 to 31, 33, 34, 36 to 41 and 43 to 47 were available.

The specificities of the primers in primer solutions 8 to 11, 18, 19, 21, 34, 36, 37, 39, 43, 44 and 46 were tested by separately adding one additional 5'-primer, respectively one additional 3'-primer.

In primer solutions 23, 26, 29, 30, 40, 41, 45 and 47 it was only possible to test the 5'-primers, the 3'-primers were not possible to test. In primer solutions 13, 20, 22, 27, 31, 33 and 38 it was only possible to test the 3'-primers, the 5'-primers were not possible to test. In primer solutions 1, 6, 8, 16, 21, 32, 34, 36, 37 and 39 one or two of the 3'-primers were not possible to test. In primer solutions 4, 10, 11, 18, 19, 21, 35 and 37 one of the 5'-primers was not possible to test.

Additional primers in primer solutions 6, 7 and 12 were tested by separately adding one additional 5'-primer, respectively one additional 3'-primer.

101.424-12 – including *Taq* polymerase, IFU-01
101.424-12u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: **21S**

Lot-specific information

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

Date of approval: 2013-May-31

Approved by:

Production Quality Control

101.424-12 – including *Taq* polymerase, IFU-01
101.424-12u – without *Taq* polymerase, IFU-02

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Lot No.: **21S**

Lot-specific information

Declaration of Conformity

Product name: *Olerup* SSP® HLA-A*26
Product number: 101.424-12/12u
Lot number: 21S

Intended use: HLA-A*26 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 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
2013-May-31

Ann-Cathrin Jareman
Head of QA and Regulatory Affairs

101.424-12 – including *Taq* polymerase, IFU-01
101.424-12u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: **21S**

Lot-specific information

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