

101.429-12 – including *Taq* polymerase, IFU-01
101.429-12u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: **21R**

Lot-specific Information

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Olerup SSP[®] HLA-A*30

Product number:	101.429-12 – including <i>Taq</i> polymerase 101.429-12u – without <i>Taq</i> polymerase
Lot number:	21R
Expiry date:	2015-March-01
Number of tests:	12
Number of wells per test:	30
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. 21R.

CHANGES COMPARED TO THE PREVIOUS OLERUP SSP[®] HLA-A*30 LOT (51M)

The HLA-A*30 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-A*30 kit, wells **25 to 30**.

The Lot-specific information for HLA-A*30 including and without *Taq* polymerase is now described in one common Product Insert.

¹As described in section Uniquely Identified Alleles.

The HLA-A*30 specificity and interpretation tables have been updated for the HLA-A alleles described since the previous *Olerup SSP[®]* HLA-A*30 lot was made (**Lot No. 51M**).

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Lot No.: **21R**

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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
3	-	Added	3'-primer added for the A*30:02:05 allele.
24	Moved	Moved	Primer moved to well 30, for decreased tendencies of primer oligomer formation.
25	New	New	New primer pair for the A*30:40 allele.
26	New	New	New primer pair for the A*30:42 allele.
27	New	New	New primer pair for the A*30:45 allele.
28	New	New	New primer pair for the A*30:51 allele.
29	New	New	New primer pairs for the A*30:59N and A*30:61 alleles.
30	New	New	Primer pair from well 24.

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PRODUCT DESCRIPTION

HLA-A*30 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the A*30:01 to A*30:66 alleles.

PLATE LAYOUT

Each test consists of 30 PCR reactions in a 32 well cut PCR plate. Wells 31 and 32 are empty.

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	empty	empty

The 32 well cut PCR plate is marked with ‘HLA-A*30’ in silver/gray ink.

Well No. 1 is marked with ‘21R’.

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 32 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*30 SSP subtypings will be influenced by four A*01, five A*02, nine A*03, three A*11, four A*23, ten A*24, two A*26, three A*29, most A*31, the A*32:07, the A*33:49, the A*34:02:02, three A*68 and the A*80 alleles when present on the other haplotype.

UNIQUELY IDENTIFIED ALLELES

All the HLA-A*30 alleles, i.e. **A*30:01 to A*30:66 alleles**, recognized by the HLA Nomenclature Committee in July 2012¹ will be amplified by the primers in the HLA-A*30 subtyping kit.

The HLA-A*30 kit enables separation of the confirmed HLA-A*30 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*30 alleles is listed below.

The HLA-A*30 kit also enables identification of polymorphisms in exons outside of the region encoding the peptide binding domain and of null and alternatively expressed alleles

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The HLA-A*30 kit cannot distinguish silent mutations in the A*30:01:01 to A*30:01:07 alleles, the 30:02:01-30:02:04 and 30:02:06-30:02:08, the A*30:04:01-30:04:02 or the A*30:11:01-30:11:02 alleles.

¹HLA-A alleles listed on the IMGT/HLA web page 2012-July-12, release 3.9.0, www.ebi.ac.uk/imgt/hla.

ALLELE CONFIRMATION STATUS

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
A*30:01:01	Confirmed	A*30:17	Confirmed	A*30:48	Unconfirmed
A*30:01:02	Unconfirmed	A*30:18	Unconfirmed	A*30:49	Unconfirmed
A*30:01:03	Unconfirmed	A*30:19	Unconfirmed	A*30:50	Unconfirmed
A*30:01:04	Confirmed	A*30:20	Confirmed	A*30:51	Confirmed
A*30:01:05	Unconfirmed	A*30:22	Unconfirmed	A*30:52	Unconfirmed
A*30:01:06	Unconfirmed	A*30:23	Unconfirmed	A*30:53	Unconfirmed
A*30:01:07	Unconfirmed	A*30:24	Unconfirmed	A*30:54	Unconfirmed
A*30:02:01	Confirmed	A*30:25	Unconfirmed	A*30:55	Unconfirmed
A*30:02:02	Unconfirmed	A*30:26	Unconfirmed	A*30:56	Unconfirmed
A*30:02:03	Confirmed	A*30:27N	Unconfirmed	A*30:57	Unconfirmed
A*30:02:04	Confirmed	A*30:28	Unconfirmed	A*30:58	Unconfirmed
A*30:02:05	Confirmed	A*30:29	Confirmed	A*30:59N	Unconfirmed
A*30:02:06	Unconfirmed	A*30:30	Confirmed	A*30:60	Unconfirmed
A*30:02:07	Unconfirmed	A*30:31	Confirmed	A*30:61	Confirmed
A*30:02:08	Unconfirmed	A*30:32	Confirmed	A*30:62	Unconfirmed
A*30:03	Confirmed	A*30:33	Unconfirmed	A*30:63	Unconfirmed
A*30:04:01	Confirmed	A*30:34	Unconfirmed	A*30:64	Unconfirmed
A*30:04:02	Confirmed	A*30:35	Unconfirmed	A*30:65	Unconfirmed
A*30:06	Unconfirmed	A*30:36	Confirmed	A*30:66	Unconfirmed
A*30:07	Confirmed	A*30:37	Unconfirmed		
A*30:08	Confirmed	A*30:38	Unconfirmed		
A*30:09	Confirmed	A*30:39	Unconfirmed		
A*30:10	Confirmed	A*30:40	Confirmed		
A*30:11:01	Confirmed	A*30:41	Unconfirmed		
A*30:11:02	Unconfirmed	A*30:42	Confirmed		
A*30:12	Unconfirmed	A*30:43	Unconfirmed		
A*30:13	Unconfirmed	A*30:44	Unconfirmed		
A*30:14L	Unconfirmed	A*30:45	Confirmed		
A*30:15	Unconfirmed	A*30:46	Unconfirmed		
A*30:16	Confirmed	A*30:47	Unconfirmed		

¹Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2012-July-12, release 3.9.0, www.ebi.ac.uk/imgt/hla.

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Lot No.: 21R

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RESOLUTION IN HOMO- AND HETEROZYGOTES

A total of 79 alleles generate 49 amplification patterns that can be combined in 1225 homozygous and heterozygous combinations. 643 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.

----+----	+--+-----	+-----	-----	*30:04:01, *30:17 = *30:17, *30:17
----+----	+--+-----	-----	-----	*30:04:01, *30:29 = *30:29, *30:29
----+----	+--+-----	-----	-----	*30:04:01, *30:46 = *30:46, *30:46
----+--+	+--+-----	-----	-----	*30:04:01, *30:06 = *30:06, *30:06
+-----	+--+-----	+-----	-----	*30:47, *30:52 = *30:52, *30:52
+-----	+--+-----	-----	-----	*30:09, *30:09 = *30:09, *30:47
+-----+	+--+-----	-----	-----	*30:28, *30:28 = *30:28, *30:47
+-----	+--+-----	-----	-----	*30:02:01, *30:02:01 = *30:02:01, *30:02:05 = *30:02:01, *30:47 = *30:02:05, *30:47
+-----	+--+-----	+-----	-----	*30:04:01, *30:52 = *30:17, *30:47 = *30:17, *30:52
+-----	+--+-----	-----	-----+	*30:02:01, *30:61 = *30:02:05, *30:61 = *30:47, *30:61 = *30:61, *30:61
+-----	+--+-----	-----	-----+	*30:02:01, *30:51 = *30:02:05, *30:51 = *30:47, *30:51 = *30:51, *30:51
+-----	+--+-----	-----	-----+	*30:02:01, *30:45 = *30:02:05, *30:45 = *30:45, *30:45 = *30:45, *30:47
+-----	+--+-----	-----+	-----	*30:02:01, *30:25 = *30:02:05, *30:25 = *30:25, *30:25 = *30:25, *30:47
+-----	+--+-----	-----+	-----	*30:02:01, *30:27N = *30:02:05, *30:27N = *30:27N, *30:27N = *30:27N, *30:47
+-----	+--+-----	-----+	-----	*30:02:01, *30:34 = *30:02:05, *30:34 = *30:34, *30:34 = *30:34, *30:47
+-----	+--+-----	-----+	-----	*30:02:01, *30:22 = *30:02:05, *30:22 = *30:22, *30:47
+-----	+--+-----	-----+	-----	*30:02:01, *30:32 = *30:02:05, *30:32 = *30:32, *30:32 = *30:32, *30:47
+-----	+--+-----	+-----	-----	*30:02:01, *30:52 = *30:02:05, *30:52
+-----	+--+-----	-----	-----	*30:02:01, *30:33 = *30:02:05, *30:33 = *30:33, *30:33 = *30:33, *30:47
+-----	+--+-----	-----	-----	*30:02:01, *30:13 = *30:02:05, *30:13 = *30:13, *30:13 = *30:13, *30:47
+-----	+--+-----	-----	-----	*30:02:01, *30:09 = *30:02:05, *30:09
+-----	+--+-----	-----	-----	*30:02:01, *30:12 = *30:02:05, *30:12 = *30:12, *30:47
+-----+	+--+-----	-----	-----	*30:02:01, *30:10 = *30:02:05, *30:10 = *30:10, *30:10 = *30:10, *30:47
+-----+	+--+-----	-----	-----	*30:02:01, *30:28 = *30:02:05, *30:28
+-----+	+--+-----	-----	-----	*30:02:01, *30:07 = *30:02:05, *30:07 = *30:07, *30:47
+-----	+--+-----	-----	-----	*30:02:01, *30:03 = *30:02:05, *30:03 = *30:03, *30:47
+-----	+--+-----	+-----	-----	*30:31, *30:31 = *30:31, *30:60
+-----	+--+-----	+-----	-----	*30:01:01, *30:01:01 = *30:01:01, *30:41 = *30:01:01, *30:47 = *30:01:01, *30:52 = *30:01:01, *30:60 = *30:41, *30:47 = *30:41, *30:52 = *30:41, *30:60 = *30:47, *30:60 = *30:52, *30:60
+-----	+--+-----	-----	-----	*30:44, *30:44 = *30:44, *30:47
+-----	+--+-----	+-----	-----	*30:18, *30:18 = *30:18, *30:41 = *30:18, *30:55 = *30:41, *30:55
+-----+	+--+-----	-----	-----	*30:08, *30:28 = *30:08, *30:47
-+-----	+--+-----	+-----+	-----	*30:04:01, *30:26 = *30:17, *30:26
-+-----	+--+-----	+-----+	-----	*30:04:01, *30:30 = *30:17, *30:30
+-----	+--+-----	-----	-----	*30:02:01, *30:46 = *30:04:01, *30:13 = *30:13, *30:46
+-----	+--+-----	-----	-----	*30:02:01, *30:06 = *30:04:01, *30:07 = *30:06, *30:07
+-----	+--+-----	+-----	-----+	*30:01:01, *30:37 = *30:37, *30:37 = *30:37, *30:41 = *30:37,

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++-----	+--+-----	+-----	-----+	*30:47 = *30:37, *30:52 = *30:37, *30:60
++-----	+--+-----	+-----	+-----	*30:01:01, *30:59N = *30:41, *30:59N = *30:47, *30:59N = *30:52, *30:59N = *30:59N, *30:59N = *30:59N, *30:60
++-----	+--+-----	+-----	+-----	*30:01:01, *30:42 = *30:41, *30:42 = *30:42, *30:42 = *30:42, *30:47 = *30:42, *30:52 = *30:42, *30:60
++-----	+--+-----	+-----	+-----	*30:01:01, *30:40 = *30:40, *30:40 = *30:40, *30:41 = *30:40, *30:47 = *30:40, *30:52 = *30:40, *30:60
++-----	+--+-----	+-----+	-----	*30:01:01, *30:26 = *30:26, *30:41 = *30:26, *30:47 = *30:26, *30:52 = *30:26, *30:60
++-----	+--+-----	+-----+	-----	*30:01:01, *30:36 = *30:36, *30:36 = *30:36, *30:41 = *30:36, *30:47 = *30:36, *30:52 = *30:36, *30:60
++-----	+--+-----	+-----+	-----	*30:01:01, *30:24 = *30:01:01, *30:30 = *30:24, *30:24 = *30:24, *30:30 = *30:24, *30:41 = *30:24, *30:47 = *30:24, *30:52 = *30:24, *30:60 = *30:30, *30:41 = *30:30, *30:47 = *30:30, *30:52 = *30:30, *30:60
++-----	+--+-----	+-----	-----	*30:01:01, *30:23 = *30:23, *30:23 = *30:23, *30:41 = *30:23, *30:47 = *30:23, *30:52 = *30:23, *30:60
++-----	+--+-----	+-----	-----	*30:01:01, *30:31 = *30:31, *30:41 = *30:31, *30:47 = *30:31, *30:52
++-----	+--+-----	+-----	-----	*30:01:01, *30:20 = *30:20, *30:20 = *30:20, *30:41 = *30:20, *30:47 = *30:20, *30:52 = *30:20, *30:60
++-----	+--+-----	+-----	-----	*30:01:01, *30:15 = *30:15, *30:15 = *30:15, *30:41 = *30:15, *30:47 = *30:15, *30:52 = *30:15, *30:60
++-----	+--+-----	+-----	-----	*30:01:01, *30:14L = *30:14L, *30:14L = *30:14L, *30:41 = *30:14L, *30:47 = *30:14L, *30:52 = *30:14L, *30:60
++-----	+--+-----	+-----	-----	*30:01:01, *30:16 = *30:01:01, *30:44 = *30:16, *30:16 = *30:16, *30:41 = *30:16, *30:44 = *30:16, *30:47 = *30:16, *30:52 = *30:16, *30:60 = *30:41, *30:44 = *30:44, *30:52 = *30:44, *30:60
++-----	+--+-----	+-----	-----	*30:01:01, *30:09 = *30:01:01, *30:35 = *30:09, *30:35 = *30:09, *30:41 = *30:09, *30:60 = *30:35, *30:35 = *30:35, *30:41 = *30:35, *30:47 = *30:35, *30:52 = *30:35, *30:60
++-----	+--+-----	+-----	-----	*30:01:01, *30:18 = *30:01:01, *30:55 = *30:18, *30:47 = *30:18, *30:52 = *30:18, *30:60 = *30:52, *30:55
++-----+	+--+-----	+-----	-----	*30:01:01, *30:08 = *30:01:01, *30:28 = *30:08, *30:41 = *30:08, *30:52 = *30:28, *30:41 = *30:28, *30:60
++-----+	+--+-----	+-----	-----	*30:08, *30:44 = *30:28, *30:44
++-----+	+--+-----	+-----	-----	*30:01:01, *30:04:01 = *30:01:01, *30:17 = *30:01:01, *30:19 = *30:04:01, *30:19 = *30:04:01, *30:41 = *30:04:01, *30:60 = *30:17, *30:19 = *30:17, *30:41 = *30:17, *30:60 = *30:19, *30:19 = *30:19, *30:41 = *30:19, *30:47 = *30:19, *30:52 = *30:19, *30:60
++-----	+--+-----	+-----	-----	*30:04:01, *30:44 = *30:44, *30:46
++-----	+--+-----	+-----	-----	*30:01:01, *30:11:01 = *30:11:01, *30:47 = *30:11:01, *30:52 = *30:11:01, *30:60
+++-----	+--+-----	+-----	-----	*30:22, *30:31 = *30:22, *30:60
+++-----	+--+-----	+-----	-----	*30:01:01, *30:02:01 = *30:01:01, *30:02:05 = *30:02:01, *30:41 = *30:02:01, *30:60 = *30:02:05, *30:41 = *30:02:05, *30:60
+++-----	+--+-----	+-----	-----	*30:02:01, *30:44 = *30:02:05, *30:44 = *30:13, *30:44
+++-----	+--+-----	+-----	-----	*30:12, *30:18 = *30:12, *30:41
+++-----	+--+-----	+-----	-----	*30:02:01, *30:55 = *30:02:05, *30:55
+++-----+	+--+-----	+-----	-----	*30:02:01, *30:08 = *30:02:05, *30:08
+--+-----	+--+-----	+-----	-----	*30:06, *30:13 = *30:07, *30:46
++-----	+--+-----	+-----+	-----+	*30:24, *30:37 = *30:30, *30:37
++-----	+--+-----	+-----+	-----+	*30:24, *30:59N = *30:30, *30:59N
++-----	+--+-----	+-----+	+-----	*30:24, *30:42 = *30:30, *30:42
++-----	+--+-----	+-----+	+-----	*30:24, *30:40 = *30:30, *30:40
++-----	+--+-----	+-----+	-----	*30:24, *30:36 = *30:30, *30:36
++-----	+--+-----	+-----+	-----	*30:23, *30:24 = *30:23, *30:30

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++-----	+-----+	-----	*30:24, *30:31 = *30:30, *30:31
++-----	+-----+	-----	*30:20, *30:24 = *30:20, *30:30
++-----	+-----+	-----	*30:15, *30:24 = *30:15, *30:30
++-----	+-----+	-----	*30:14L, *30:24 = *30:14L, *30:30
++-----	+-----+	-----+	*30:16, *30:37 = *30:37, *30:44
++-----	+-----+	-----+	*30:16, *30:59N = *30:44, *30:59N
++-----	+-----+	-----+	*30:16, *30:42 = *30:42, *30:44
++-----	+-----+	-----+	*30:16, *30:40 = *30:40, *30:44
++-----	+-----+	-----+	*30:16, *30:26 = *30:26, *30:44
++-----	+-----+	-----+	*30:16, *30:36 = *30:36, *30:44
++-----	+-----+	-----	*30:16, *30:24 = *30:16, *30:30 = *30:24, *30:44 = *30:30, *30:44
++-----	+-----+	-----	*30:16, *30:23 = *30:23, *30:44
++-----	+-----+	-----	*30:16, *30:31 = *30:31, *30:44
++-----	+-----+	-----	*30:16, *30:20 = *30:20, *30:44
++-----	+-----+	-----	*30:15, *30:16 = *30:15, *30:44
++-----	+-----+	-----	*30:14L, *30:16 = *30:14L, *30:44
++-----	+-----+	-----+	*30:09, *30:37 = *30:35, *30:37
++-----	+-----+	-----+	*30:09, *30:59N = *30:35, *30:59N
++-----	+-----+	-----+	*30:09, *30:42 = *30:35, *30:42
++-----	+-----+	-----+	*30:09, *30:40 = *30:35, *30:40
++-----	+-----+	-----	*30:09, *30:26 = *30:26, *30:35
++-----	+-----+	-----	*30:09, *30:36 = *30:35, *30:36
++-----	+-----+	-----	*30:09, *30:24 = *30:09, *30:30 = *30:24, *30:35 = *30:30, *30:35
++-----	+-----+	-----	*30:09, *30:23 = *30:23, *30:35
++-----	+-----+	-----	*30:09, *30:31 = *30:31, *30:35
++-----	+-----+	-----	*30:09, *30:20 = *30:20, *30:35
++-----	+-----+	-----	*30:09, *30:15 = *30:15, *30:35
++-----	+-----+	-----	*30:09, *30:14L = *30:14L, *30:35
++-----	+-----+	-----	*30:09, *30:16 = *30:16, *30:35 = *30:35, *30:44
++-----	+-----+	-----+	*30:18, *30:37 = *30:37, *30:55
++-----	+-----+	-----+	*30:18, *30:59N = *30:55, *30:59N
++-----	+-----+	-----+	*30:18, *30:42 = *30:42, *30:55
++-----	+-----+	-----+	*30:18, *30:40 = *30:40, *30:55
++-----	+-----+	-----	*30:18, *30:26 = *30:26, *30:55
++-----	+-----+	-----	*30:18, *30:36 = *30:36, *30:55
++-----	+-----+	-----	*30:18, *30:24 = *30:18, *30:30 = *30:24, *30:55 = *30:30, *30:55
++-----	+-----+	-----	*30:18, *30:23 = *30:23, *30:55
++-----	+-----+	-----	*30:18, *30:20 = *30:20, *30:55
++-----	+-----+	-----	*30:15, *30:18 = *30:15, *30:55
++-----	+-----+	-----	*30:14L, *30:18 = *30:14L, *30:55
++-----	+-----+	-----	*30:16, *30:18 = *30:16, *30:55 = *30:18, *30:44
++-----	+-----+	-----	*30:09, *30:18 = *30:18, *30:35 = *30:35, *30:55
++-----+	+-----+	-----+	*30:08, *30:37 = *30:28, *30:37
++-----+	+-----+	-----+	*30:08, *30:59N = *30:28, *30:59N
++-----+	+-----+	-----+	*30:08, *30:42 = *30:28, *30:42
++-----+	+-----+	-----+	*30:08, *30:40 = *30:28, *30:40
++-----+	+-----+	-----	*30:08, *30:26 = *30:26, *30:28
++-----+	+-----+	-----	*30:08, *30:36 = *30:28, *30:36
++-----+	+-----+	-----	*30:08, *30:24 = *30:08, *30:30 = *30:24, *30:28 = *30:28, *30:30
++-----+	+-----+	-----	*30:08, *30:23 = *30:23, *30:28
++-----+	+-----+	-----	*30:08, *30:20 = *30:20, *30:28
++-----+	+-----+	-----	*30:08, *30:15 = *30:15, *30:28
++-----+	+-----+	-----	*30:08, *30:14L = *30:14L, *30:28
++-----+	+-----+	-----	*30:08, *30:16 = *30:16, *30:28
++-----+	+-----+	-----	*30:08, *30:35 = *30:28, *30:35
++-----+	+-----+	-----	*30:08, *30:18 = *30:18, *30:28
++-----+	+-----+	-----+	*30:04:01, *30:37 = *30:17, *30:37 = *30:19, *30:37



101.429-12 – including *Taq* polymerase, IFU-01
101.429-12u – without *Taq* polymerase, IFU-02

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Lot No.: 21R

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++-+-----	+--+-----	+-----	-----+	*30:04:01, *30:59N = *30:17, *30:59N = *30:19, *30:59N
++-+-----	+--+-----	+-----	+-----	*30:04:01, *30:42 = *30:17, *30:42 = *30:19, *30:42
++-+-----	+--+-----	+-----	+-----	*30:04:01, *30:40 = *30:17, *30:40 = *30:19, *30:40
++-+-----	+--+-----	+-----	-----	*30:04:01, *30:36 = *30:17, *30:36 = *30:19, *30:36
++-+-----	+--+-----	+-----	-----	*30:04:01, *30:24 = *30:17, *30:24 = *30:19, *30:24 = *30:19, *30:30
++-+-----	+--+-----	+-----	-----	*30:04:01, *30:23 = *30:17, *30:23 = *30:19, *30:23
++-+-----	+--+-----	+-----	-----	*30:04:01, *30:31 = *30:17, *30:31 = *30:19, *30:31
++-+-----	+--+-----	+-----	-----	*30:04:01, *30:20 = *30:17, *30:20 = *30:19, *30:20
++-+-----	+--+-----	+-----	-----	*30:04:01, *30:15 = *30:15, *30:17 = *30:15, *30:19
++-+-----	+--+-----	+-----	-----	*30:01:01, *30:29 = *30:04:01, *30:14L = *30:14L, *30:17 = *30:14L, *30:19 = *30:14L, *30:29 = *30:19, *30:29 = *30:29, *30:41 = *30:29, *30:60
++-+-----	+--+-----	+-----	-----	*30:01:01, *30:46 = *30:04:01, *30:16 = *30:16, *30:17 = *30:16, *30:19 = *30:16, *30:46 = *30:17, *30:44 = *30:19, *30:44 = *30:19, *30:46 = *30:41, *30:46 = *30:46, *30:60
++-+-----	+--+-----	+-----	-----	*30:04:01, *30:35 = *30:09, *30:19 = *30:17, *30:35 = *30:19, *30:35
++-+-----	+--+-----	+-----	-----	*30:04:01, *30:18 = *30:17, *30:18 = *30:17, *30:55 = *30:18, *30:19 = *30:19, *30:55
++-+-----	+--+-----	+-----	-----	*30:08, *30:17 = *30:08, *30:19 = *30:19, *30:28
++-+-----	+--+-----	+-----	-----	*30:01:01, *30:06 = *30:06, *30:19 = *30:06, *30:41 = *30:06, *30:60
++-+-----	+--+-----	+-----	-----	*30:11:01, *30:24 = *30:11:01, *30:30
++-+-----	+--+-----	+-----	-----	*30:11:01, *30:16 = *30:11:01, *30:44
++-+-----	+--+-----	+-----	-----	*30:09, *30:11:01 = *30:11:01, *30:35
++-+-----	+--+-----	+-----	-----	*30:04:01, *30:11:01 = *30:11:01, *30:17 = *30:11:01, *30:19
++-+-----	+--+-----	+-----	-----+	*30:02:01, *30:37 = *30:02:05, *30:37
++-+-----	+--+-----	+-----	-----+	*30:01:01, *30:61 = *30:02:01, *30:59N = *30:02:05, *30:59N = *30:41, *30:61 = *30:59N, *30:61 = *30:60, *30:61
++-+-----	+--+-----	+-----	-----+	*30:01:01, *30:51 = *30:41, *30:51 = *30:51, *30:60
++-+-----	+--+-----	+-----	-----+	*30:01:01, *30:45 = *30:41, *30:45 = *30:45, *30:60
++-+-----	+--+-----	+-----	+-----	*30:02:01, *30:42 = *30:02:05, *30:42
++-+-----	+--+-----	+-----	+-----	*30:02:01, *30:40 = *30:02:05, *30:40
++-+-----	+--+-----	+-----	+-----	*30:01:01, *30:25 = *30:25, *30:41 = *30:25, *30:60
++-+-----	+--+-----	+-----	+-----	*30:01:01, *30:27N = *30:02:01, *30:36 = *30:02:05, *30:36 = *30:27N, *30:36 = *30:27N, *30:41 = *30:27N, *30:60
++-+-----	+--+-----	+-----	+-----	*30:02:01, *30:24 = *30:02:01, *30:30 = *30:02:05, *30:24
++-+-----	+--+-----	+-----	+-----	*30:01:01, *30:34 = *30:02:01, *30:23 = *30:02:05, *30:23 = *30:23, *30:34 = *30:34, *30:41 = *30:34, *30:60
++-+-----	+--+-----	+-----	+-----	*30:01:01, *30:22 = *30:02:01, *30:31 = *30:02:05, *30:31
++-+-----	+--+-----	+-----	+-----	*30:01:01, *30:32 = *30:02:01, *30:20 = *30:02:05, *30:20 = *30:20, *30:32 = *30:32, *30:41 = *30:32, *30:60
++-+-----	+--+-----	+-----	+-----	*30:01:01, *30:33 = *30:02:01, *30:15 = *30:02:05, *30:15 = *30:15, *30:33 = *30:33, *30:41 = *30:33, *30:60
++-+-----	+--+-----	+-----	+-----	*30:02:01, *30:14L = *30:02:05, *30:14L
++-+-----	+--+-----	+-----	+-----	*30:01:01, *30:13 = *30:02:01, *30:16 = *30:02:05, *30:16 = *30:13, *30:16 = *30:13, *30:41 = *30:13, *30:60
++-+-----	+--+-----	+-----	+-----	*30:02:01, *30:35 = *30:02:05, *30:35
++-+-----	+--+-----	+-----	+-----	*30:01:01, *30:12 = *30:02:01, *30:18 = *30:02:05, *30:18 = *30:12, *30:60
++-+-----	+--+-----	+-----	+-----	*30:12, *30:44 = *30:13, *30:55
++-+-----	+--+-----	+-----	+-----	*30:01:01, *30:10 = *30:10, *30:41 = *30:10, *30:60
++-+-----	+--+-----	+-----	+-----	*30:01:01, *30:07 = *30:07, *30:41
++-+-----	+--+-----	+-----	+-----	*30:02:01, *30:19 = *30:02:05, *30:19
++-+-----	+--+-----	+-----	+-----	*30:01:01, *30:03 = *30:02:01, *30:11:01 = *30:02:05, *30:11:01 = *30:03, *30:60

101.429-12 – including *Taq* polymerase, IFU-01
101.429-12u – without *Taq* polymerase, IFU-02

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++++-----	++++-----	+-----	-----	*30:03, *30:18 = *30:11:01, *30:12
+-----	+-----	+-----	-----	*30:14L, *30:46 = *30:16, *30:29
++++-----	+-----	+-----	-----	*30:27N, *30:59N = *30:36, *30:61
++++-----	+-----	+-----	-----	*30:24, *30:61 = *30:30, *30:61
++++-----	+-----	+-----	-----	*30:24, *30:51 = *30:30, *30:51
++++-----	+-----	+-----	-----	*30:24, *30:45 = *30:30, *30:45
++++-----	+-----	+-----	-----	*30:24, *30:25 = *30:25, *30:30
++++-----	+-----	+-----	-----	*30:24, *30:27N = *30:27N, *30:30
++++-----	+-----	+-----	-----	*30:23, *30:61 = *30:34, *30:59N
++++-----	+-----	+-----	-----	*30:23, *30:27N = *30:34, *30:36
++++-----	+-----	+-----	-----	*30:24, *30:34 = *30:30, *30:34
++++-----	+-----	+-----	-----	*30:22, *30:59N = *30:31, *30:61
++++-----	+-----	+-----	-----	*30:22, *30:36 = *30:27N, *30:31
++++-----	+-----	+-----	-----	*30:22, *30:24 = *30:22, *30:30
++++-----	+-----	+-----	-----	*30:22, *30:23 = *30:31, *30:34
++++-----	+-----	+-----	-----	*30:20, *30:61 = *30:32, *30:59N
++++-----	+-----	+-----	-----	*30:20, *30:27N = *30:32, *30:36
++++-----	+-----	+-----	-----	*30:24, *30:32 = *30:30, *30:32
++++-----	+-----	+-----	-----	*30:20, *30:34 = *30:23, *30:32
++++-----	+-----	+-----	-----	*30:20, *30:22 = *30:31, *30:32
++++-----	+-----	+-----	-----	*30:15, *30:61 = *30:33, *30:59N
++++-----	+-----	+-----	-----	*30:15, *30:27N = *30:33, *30:36
++++-----	+-----	+-----	-----	*30:24, *30:33 = *30:30, *30:33
++++-----	+-----	+-----	-----	*30:15, *30:34 = *30:23, *30:33
++++-----	+-----	+-----	-----	*30:15, *30:22 = *30:31, *30:33
++++-----	+-----	+-----	-----	*30:15, *30:32 = *30:20, *30:33
++++-----	+-----	+-----	-----	*30:13, *30:59N = *30:16, *30:61
++++-----	+-----	+-----	-----	*30:13, *30:36 = *30:16, *30:27N
++++-----	+-----	+-----	-----	*30:13, *30:24 = *30:13, *30:30
++++-----	+-----	+-----	-----	*30:13, *30:23 = *30:16, *30:34
++++-----	+-----	+-----	-----	*30:13, *30:31 = *30:16, *30:22
++++-----	+-----	+-----	-----	*30:13, *30:20 = *30:16, *30:32
++++-----	+-----	+-----	-----	*30:13, *30:15 = *30:16, *30:33
++++-----	+-----	+-----	-----	*30:12, *30:59N = *30:18, *30:61
++++-----	+-----	+-----	-----	*30:12, *30:36 = *30:18, *30:27N
++++-----	+-----	+-----	-----	*30:12, *30:24 = *30:12, *30:30
++++-----	+-----	+-----	-----	*30:12, *30:23 = *30:18, *30:34
++++-----	+-----	+-----	-----	*30:12, *30:20 = *30:18, *30:32
++++-----	+-----	+-----	-----	*30:12, *30:15 = *30:18, *30:33
++++-----	+-----	+-----	-----	*30:12, *30:16 = *30:13, *30:18
++++-----	+-----	+-----	-----	*30:10, *30:24 = *30:10, *30:30
++++-----	+-----	+-----	-----	*30:07, *30:24 = *30:07, *30:30
++++-----	+-----	+-----	-----	*30:03, *30:59N = *30:11:01, *30:61
++++-----	+-----	+-----	-----	*30:03, *30:36 = *30:11:01, *30:27N
++++-----	+-----	+-----	-----	*30:03, *30:24 = *30:03, *30:30
++++-----	+-----	+-----	-----	*30:03, *30:23 = *30:11:01, *30:34
++++-----	+-----	+-----	-----	*30:03, *30:20 = *30:11:01, *30:32
++++-----	+-----	+-----	-----	*30:03, *30:15 = *30:11:01, *30:33
++++-----	+-----	+-----	-----	*30:03, *30:16 = *30:11:01, *30:13

*30:01:01 = *30:01:01-30:01:07 and 30:38-30:39, 30:43, 30:48-30:49, 30:53-30:54, 30:56, 30:58, 30:62-30:63 and 30:65
*30:02:01 = *30:02:01-30:02:04 and 30:02:06-30:02:08 and 30:50, 30:57, 30:64 and 30:66
*30:04:01 = *30:04:01-30:04:02
*30:11:01 = *30:11:01-30:11:02



101.429-12 – including *Taq* polymerase, IFU-01
 101.429-12u – without *Taq* polymerase, IFU-02

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Lot-specific Information

www.olerup-ssp.com**SPECIFICITY TABLE****HLA-A*30 SSP subtyping**

Specificities and sizes of the PCR products of the 30 primer mixes used for
 HLA-A*30 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-A*30 alleles ³	Other amplified HLA-A alleles ⁴
1	165 bp	800 bp	*30:01:01-30:02:04, 30:02:06-30:03, 30:07- 30:16, 30:18-30:20, 30:22- 30:25, 30:27N-30:28, 30:31-30:45, 30:47-30:66	*02:52, 03:43, 23:46
2	205 bp	800 bp	*30:01:01-30:01:07, 30:08, 30:11:01-30:11:02, 30:14L- 30:16, 30:18-30:20, 30:23- 30:24, 30:26, 30:30-30:31, 30:35-30:44, 30:48-30:49, 30:53-30:56, 30:58-30:60, 30:62-30:63, 30:65	
3	210 bp	800 bp	*30:02:01-30:03, 30:07, 30:10, 30:12-30:13, 30:22, 30:25, 30:27N, 30:32- 30:34, 30:45, 30:50-30:51, 30:57, 30:61, 30:64, 30:66	*03:05:02, 11:24:01, 34:02:02, 80:01-80:02
4 ⁶	155 bp	1070 bp	*30:03, 30:11:01-30:11:02	*01:02, 01:20
5 ⁸	150 bp, 245 bp	1070 bp	*30:04:01-30:04:02, 30:06, 30:17, 30:19, 30:29, 30:46	*02:52, 03:82, 24:66, 68:06
6 ^{5,9}	80 bp, 185 bp	1070 bp	*30:06-30:07	
7	200 bp	1070 bp	*30:08, 30:28	*02:185 ^w
8 ⁵	85 bp	800 bp	*30:10	
9	180 bp	1070 bp	*30:01:01-30:02:08, 30:04:01-30:04:02, 30:06- 30:07, 30:09-30:10, 30:12- 30:20, 30:23-30:54, 30:56- 30:66	*24:124
10	150 bp	1070 bp	*30:12, 30:18, 30:55	*01:07, 02:185, 24:124, 26:19, 29:14, 31:01:02- 31:01:06, 31:01:08-31:07, 31:09-31:43, 31:45-31:66
11	215 bp	800 bp	*30:01:01-30:04:02, 30:06,	*01:02 ^w , 01:20 ^w , 03:72,

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Lot No.: **21R**

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Lot No.: 21R		Lot-specific Information		www.olerup-ssp.com
			30:09-30:20, 30:23-30:30, 30:32-30:54, 30:56- 30:59N, 30:61-30:66	11:88, 23:09 ^W , 23:51, 24:24, 24:67, 24:129 ^W , 24:145, 24:156, 24:191, 26:16, 29:37, 32:07, 68:45
12⁶	195 bp	1070 bp	*30:09, 30:35	*03:42, 03:131, 03:133, 31:03-31:04, 33:49
13	155 bp	1070 bp	*30:01:01-30:02:08, 30:04:01-30:04:02, 30:06- 30:10, 30:13-30:17, 30:19- 30:20, 30:23-30:40, 30:42- 30:54, 30:56-30:66	
14⁶	210 bp	1070 bp	*30:13, 30:16, 30:44, 30:46	
15	245 bp	800 bp	*30:14L, 30:29	
16	265 bp	1070 bp	*30:15, 30:33	
17	225 bp	1070 bp	*30:01:01-30:01:07, 30:11:01-30:11:02, 30:14L- 30:20, 30:23-30:24, 30:26, 30:30-30:31, 30:35-30:43, 30:48-30:49, 30:52-30:54, 30:56, 30:58-30:60, 30:62- 30:63, 30:65	*03:72, 11:88, 24:19, 29:37, 68:45
18¹⁰	130 bp, 210 bp	800 bp	*30:20, 30:32	
19¹¹	160 bp, 200 bp	1070 bp	*30:22, 30:31	
20¹²	210 bp, 275 bp	800 bp	*30:23, 30:34	*03:04:02
21¹³	155 bp, 185 bp	1070 bp	*30:24, 30:30	
22¹⁴	170 bp, 215 bp	800 bp	*30:27N, 30:36	
23	155 bp	1070 bp	*30:26	
24⁷	200 bp	800 bp	*30:25	
25⁶	170 bp	1070 bp	*30:40	
26⁵	80 bp	1070 bp	*30:42	
27	195 bp	1070 bp	*30:45	
28	270 bp	1070 bp	*30:51	*02:121, 23:47, 29:06, 31:51, 68:14
29	130 bp	1070 bp	*30:59N, 30:61	*01:57N, 02:156, 02:338, 03:17:01, 11:119, 24:92
30⁵	80 bp	1070 bp	*30:37	

101.429-12 – including *Taq* polymerase, IFU-01
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Lot No.: 21R**Lot-specific Information****www.olerup-ssp.com**

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*30 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*30 subtyping.

In addition, wells number 2, 3, 8, 11, 15, 18, 20, 22 and 24 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-A alleles 1st and/or 4th exon 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*30 alleles will be amplified by primer mixes 1, 3 to 5, 7, 9 to 12, 17, 20, 28 and 29.

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

⁶Primer mixes 4, 12, 14 and 25 may give rise to nonspecific amplifications, most pronounced in primer mixes 12 and 14.

⁷Primer mix 24 may have a tendency of giving rise to primer oligomer formation.

⁸Primer mix 5: Specific PCR fragment of 150 bp in the A*30:04:01-30:04:02, 30:06, 30:17, 30:29 and 30:46 and the A*02:52, 03:82, 24:66 and 68:06 alleles. Specific PCR fragment of 245 bp in the A*30:19 allele.

⁹Primer mix 6: Specific PCR fragment of 80 bp in the A*30:06 allele. Specific PCR fragment of 185 bp in the A*30:07 allele.

¹⁰Primer mix 18: Specific PCR fragment of 130 bp in the A*30:32 allele. Specific PCR fragment of 210 bp in the A*30:20 allele.

¹¹Primer mix 19: Specific PCR fragment of 160 bp in the A*30:22 allele. Specific PCR fragment of 200 bp in the A*30:31 allele.

¹²Primer mix 20: Specific PCR fragment of 210 bp in the A*30:23 allele. Specific PCR fragment of 275 bp in the A*30:34 and the A*03:04:02 alleles.

¹³Primer mix 21: Specific PCR fragment of 155 bp in the A*30:30 allele. Specific PCR fragment of 185 bp in the A*30:24 allele.

¹⁴Primer mix 22: Specific PCR fragment of 170 bp in the A*30:36 allele. Specific PCR fragment of 215 bp in the A*30:27N allele.

'w', might be weakly amplified.

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INTERPRETATION TABLE																
HLA-A*30 SSP subtyping																
Amplification patterns of the A*30:01 to 30:66 alleles																
	Well ⁶															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Length of spec. PCR product(s)	165	205	210	155	150	80	200	85	180	150	215	195	155	210	245	265
Length of int.																
pos. control ¹	800	800	800	1070	1070	1070	1070	800	1070	1070	800	1070	1070	1070	800	1070
5'-primer(s) ²	414	363	363	123	123	123	78	367	98	127	98	363	123	123	363	363
	5'-gAA 3'	5'-ATA 3'	5'-ATA 3'	5'-AgT 3'	5'-AgT 3'	5'-AgT 3'	5'-TCT 3'	5'-TgC 3'	5'-CTC 3'	5'-ggg 3'	5'-CTC 3'	5'-ATA 3'	5'-AgT 3'	5'-AgT 3'	5'-ATA 3'	5'-ATA 3'
					414		362									784
					5'-gAA 3'		5'-ggT 3'									5'-ggA 3'
3'-primer(s) ³	538	526	526	238	325	163	238	411	238	238	270	505	238	292	563	586
	5'-CAA 3'	5'-CCA 3'	5'-CCg 3'	5'-CCC 3'	5'-gTg 3'	5'-CgC 3'	5'-CCT 3'	5'-TCA 3'	5'-CCT 3'	5'-CCT 3'	5'-ACA 3'	5'-gCT 3'	5'-CCT 3'	5'-gTg 3'	5'-Cgg 3'	5'-CAC 3'
			535		524	265	526					524			572	899
			5'-CTA 3'		5'-CAT 3'	5'-CCC 3'	5'-CCg 3'					5'-CAC 3'			5'-gCg 3'	5'-ACA 3'
			538													
			5'-CAg 3'													
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
HLA-A allele ^{4,5}																
*30:01:01-30:01:07, 30:38-30:39, 30:43, 30:48-30:49, 30:53- 30:54, 30:56, 30:58, 30:62-30:63, 30:65	1	2							9		11		13			
*30:02:01-30:02:04, 30:02:06-30:02:08, 30:50, 30:57, 30:64, 30:66	1		3						9		11		13			
*30:02:05			3						9		11		13			
*30:03	1		3	4							11					
*30:04:01-30:04:02					5				9		11		13			
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

101.429-12 – including *Taq* polymerase, IFU-01
 101.429-12u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **21R**

Lot-specific Information

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INTERPRETATION TABLE														
HLA-A*30 SSP subtyping														
Amplification patterns of the A*30:01 to 30:66 alleles														
Well⁶														
17	18	19	20	21	22	23	24	25	26	27	28	29	30	
225	130	160	210	155	170	155	200	170	80	195	270	130	80	Length of spec. PCR product(s)
	210	200	275	185	215									
														Length of int. pos. control¹
1070	800	1070	800	1070	800	1070	800	1070	1070	1070	1070	1070	1070	
98	123	123	363	410	363	413	123	397	363	414	385	363	485	5'-primer(s)²
5'-CTC 3'	5'-AgT 3'	5'-AgT 3'	5'-ATA 3'	5'-gTg 3'	5'-ATA 3'	5'-CCg 3'	5'-AgT 3'	5'-gCC 3'	5'-ATA 3'	5'-gAA 3'	5'-ggT 3'	5'-ATA 3'	5'-CAC 3'	
				634										
				5'-Cag 3'										
282	212	240	530	526	494	526	282	526	403	570	616	453	526	3'-primer(s)³
5'-gAC 3'	5'-gCC 3'	5'-ggA 3'	5'-CCT 3'	5'-CCA 3'	5'-TCC 3'	5'-CCA 3'	5'-gAC 3'	5'-CCA 3'	5'-gCT 3'	5'-Cag 3'	5'-CgC 3'	5'-TCT 3'	5'-CCA 3'	
	294	281	595	777	535							454		
	5'-CgT 3'	5'-ACC 3'	5'-CCT 3'	5'-gCA 3'	5'-CTA 3'							5'-CTA 3'		
17														Well No.
														HLA-A allele^{4,5}
														*30:01:01-30:01:07, 30:38-30:39, 30:43, 30:48-30:49, 30:53- 30:54, 30:56, 30:58, 30:62-30:63, 30:65
														*30:02:01-30:02:04, 30:02:06-30:02:08, 30:50, 30:57, 30:64, 30:66
														*30:02:05
														*30:03
														*30:04:01-30:04:02
17	18	19	20	21	22	23	24	25	26	27	28	29	30	Well No.

101.429-12 – including *Taq* polymerase, IFU-01
 101.429-12u – without *Taq* polymerase, IFU-02

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Lot No.: **21R**

Lot-specific Information

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Length of spec.	165	205	210	155	150	80	200	85	180	150	215	195	155	210	245	265
PCR product(s)					245	185										
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*30:06					5	6			9		11		13			
*30:07	1		3			6			9				13			
*30:08	1	2					7						13			
*30:09	1								9		11	12	13			
*30:10	1		3					8	9		11		13			
*30:11:01-30:11:02	1	2		4							11					
*30:12	1		3						9	10	11					
*30:13	1		3						9		11		13	14		
*30:14L	1	2							9		11		13		15	
*30:15	1	2							9		11		13			16
*30:16	1	2							9		11		13	14		
*30:17					5				9		11		13			
*30:18	1	2							9	10	11					
*30:19	1	2			5				9		11		13			
*30:20	1	2							9		11		13			
*30:22	1		3													
*30:23	1	2							9		11		13			
*30:24	1	2							9		11		13			
*30:25	1		3						9		11		13			
*30:26		2							9		11		13			
*30:27N	1		3						9		11		13			
*30:28	1						7		9		11		13			
*30:29					5				9		11		13		15	
*30:30		2							9		11		13			
*30:31	1	2							9				13			
*30:32	1		3						9		11		13			
*30:33	1		3						9		11		13			16
*30:34	1		3						9		11		13			
*30:35	1	2							9		11	12	13			
*30:36	1	2							9		11		13			
*30:37	1	2							9		11		13			
*30:40	1	2							9		11		13			
*30:41	1	2							9		11					
*30:42	1	2							9		11		13			
*30:44	1	2							9		11		13	14		
*30:45	1		3						9		11		13			
*30:46					5				9		11		13	14		
*30:47	1								9		11		13			
*30:51	1		3						9		11		13			
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

101.429-12 – including *Taq* polymerase, IFU-01
 101.429-12u – without *Taq* polymerase, IFU-02

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Lot No.: **21R**

Lot-specific Information

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225	130	160	210	155	170	155	200	170	80	195	270	130	80	Length of spec. PCR product(s)
	210	200	275	185	215									Well No.
17	18	19	20	21	22	23	24	25	26	27	28	29	30	
														*30:06
														*30:07
														*30:08
														*30:09
														*30:10
17														*30:11:01-30:11:02
														*30:12
														*30:13
17														*30:14L
17														*30:15
17														*30:16
17														*30:17
17														*30:18
17														*30:19
17	18													*30:20
		19												*30:22
17			20											*30:23
17				21										*30:24
							24							*30:25
17						23								*30:26
					22									*30:27N
														*30:28
														*30:29
17				21										*30:30
17		19												*30:31
	18													*30:32
														*30:33
			20											*30:34
17														*30:35
17					22									*30:36
17													30	*30:37
17								25						*30:40
17														*30:41
17									26					*30:42
														*30:44
										27				*30:45
														*30:46
														*30:47
											28			*30:51
17	18	19	20	21	22	23	24	25	26	27	28	29	30	Well No.

101.429-12 – including *Taq* polymerase, IFU-01
 101.429-12u – without *Taq* polymerase, IFU-02

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Lot No.: **21R**

Lot-specific Information

www.olerup-ssp.com

Length of spec.	165	205	210	155	150	80	200	85	180	150	215	195	155	210	245	265
PCR product(s)					245	185										
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*30:52	1								9		11		13			
*30:55	1	2								10						
*30:59N	1	2							9		11		13			
*30:60	1	2							9				13			
*30:61	1		3						9		11		13			
*01:02, 01:20				4							w					
*01:07, 26:19, 29:14, 31:01:02-31:01:06, 31:01:08-31:02, 31:05- 31:07, 31:09-31:43, 31:45-31:50, 31:52- 31:66										10						
*01:57N, 02:156, 02:338, 03:17:01, 11:119, 24:92																
*02:52	1				5											
*02:121, 23:47, 29:06, 68:14																
*02:185							w			10						
*03:04:02																
*03:05:02, 11:24:01, 34:02:02, 80:01-80:02			3													
*03:42, 03:131, 03:133, 33:49												12				
*03:43, 23:46	1															
*03:72, 11:88, 29:37, 68:45											11					
*03:82, 24:66, 68:06					5											
*23:09, 24:129											w					
*23:51, 24:24, 24:67, 24:145, 24:156, 24:191, 26:16, 32:07											11					
*24:19																
*24:124									9	10						
*31:03-31:04										10		12				
*31:51										10						
HLA-A allele^{4,5}																
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

101.429-12 – including *Taq* polymerase, IFU-01
 101.429-12u – without *Taq* polymerase, IFU-02

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Lot No.: **21R**

Lot-specific Information

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225	130	160	210	155	170	155	200	170	80	195	270	130	80	Length of spec. PCR product(s)
	210	200	275	185	215									Well No.
17	18	19	20	21	22	23	24	25	26	27	28	29	30	
17														*30:52
														*30:55
17												29		*30:59N
17														*30:60
												29		*30:61
														*01:02, 01:20
														*01:07, 26:19, 29:14, 31:01:02-31:01:06, 31:01:08-31:02, 31:05- 31:07, 31:09-31:43, 31:45-31:50, 31:52- 31:66
												29		*01:57N, 02:156, 02:338, 03:17:01, 11:119, 24:92
														*02:52
											28			*02:121, 23:47, 29:06, 68:14
														*02:185
			20											*03:04:02
														*03:05:02, 11:24:01, 34:02:02, 80:01-80:02
														*03:42, 03:131, 03:133, 33:49
														*03:43, 23:46
17														*03:72, 11:88, 29:37, 68:45
														*03:82, 24:66, 68:06
														*23:09, 24:129
														*23:51, 24:24, 24:67, 24:145, 24:156, 24:191, 26:16, 32:07
17														*24:19
														*24:124
														*31:03-31:04
											28			*31:51
														HLA-A allele^{4,5}
17	18	19	20	21	22	23	24	25	26	27	28	29	30	Well No.

101.429-12 – including **Taq** polymerase, IFU-01
101.429-12u – without **Taq** polymerase, IFU-02

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Lot No.: **21R**

Lot-specific Information

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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*30 subtyping.

In addition, wells number 2, 3, 8, 11, 15, 18, 20, 22 and 24 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 2nd, 3rd or 4th exons, matching the specificity-determining 3'-end of the primer is given. Nuclotide 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. Nuclotide 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 A*3005 allele has been shown to be identical to A*30:04.

The A*3021 allele has been renamed A*30:11:02.

⁵HLA-A*30 alleles in bold lettering are listed as confirmed alleles on the on the IMGT/HLA web page www.ebi.ac.uk/imgt/hla, release 3.9.0, July 2012.

⁶Primer mix 5: Specific PCR fragment of 150 bp in the A*30:04:01-30:04:02, 30:06, 30:17, 30:29 and 30:46 and the A*02:52, 03:82, 24:66 and 68:06 alleles. Specific PCR fragment of 245 bp in the A*30:19 alleles.

Primer mix 6: Specific PCR fragment of 80 bp in the A*30:06 allele. Specific PCR fragment of 185 bp in the A*30:07 allele.

Primer mix 18: Specific PCR fragment of 130 bp in the A*30:32 allele. Specific PCR fragment of 210 bp in the A*30:20 allele.

Primer mix 19: Specific PCR fragment of 160 bp in the A*30:22 allele. Specific PCR fragment of 200 bp in the A*30:31 allele.

Primer mix 20: Specific PCR fragment of 210 bp in the A*30:23 allele. Specific PCR fragment of 275 bp in the A*30:34 and the A*03:04:02 alleles.

Primer mix 21: Specific PCR fragment of 155 bp in the A*30:30 allele. Specific PCR fragment of 185 bp in the A*30:24 allele.

Primer mix 22: Specific PCR fragment of 170 bp in the A*30:36 allele. Specific PCR fragment of 215 bp in the A*30:27N allele.

'w', might be weakly amplified.

101.429-12 – including *Taq* polymerase, IFU-01
 101.429-12u – without *Taq* polymerase, IFU-02

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Lot No.: **21R**

Lot-specific Information

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CELL LINE VALIDATION SHEET																				
HLA-A*30 SSP subtyping kit																				
				Lot No.:	Well															
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
					201206201	201206202	201206203	201206204	201206205	201206206	201206207	201206208	201206209	201206210	201206211	201206212	201206213	201206214	201206215	201206216
	IHWC cell line	A*	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		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.429-12 – including *Taq* polymerase, IFU-01
 101.429-12u – without *Taq* polymerase, IFU-02

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Lot No.: 21R

Lot-specific Information

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CELL LINE VALIDATION SHEET																		
HLA-A*30 SSP subtyping kit																		
				Well														
				17	18	19	20	21	22	23	24	25	26	27	28	29	30	
				Lot No.:	201206217	201206218	201206219	201206220	201206221	201206222	201206223	201206224	201206225	201206226	201206227	201206228	201206229	201206230
	IHWC cell line	A*	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

101.429-12 – including *Taq* polymerase, IFU-01
 101.429-12u – without *Taq* polymerase, IFU-02

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

Lot No.: **21R**

Lot-specific Information

www.olerup-ssp.com

CERTIFICATE OF ANALYSIS

Olerup SSP[®] HLA-A*30

Product number: 101.429-12 – including *Taq* polymerase
 101.429-12u – without *Taq* polymerase
 Lot number: 21R
 Expiry date: 2015-March-01
 Number of tests: 12
 Number of wells per test: 30

Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2012-062-01	11	2012-062-11	21	2012-062-21
2	2012-062-02	12	2012-062-12	22	2012-062-22
3	2012-062-03	13	2012-062-13	23	2012-062-23
4	2012-062-04	14	2012-062-14	24	2012-062-24
5	2012-062-05	15	2012-062-15	25	2012-062-25
6	2012-062-06	16	2012-062-16	26	2012-062-26
7	2012-062-07	17	2012-062-17	27	2012-062-27
8	2012-062-08	18	2012-062-18	28	2012-062-28
9	2012-062-09	19	2012-062-19	29	2012-062-29
10	2012-062-10	20	2012-062-20	30	2012-062-30

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

No DNAs carrying the alleles to be amplified by primer solutions 6 to 8, 14 to 16 and 18 to 30 were available. The specificities of the primers in primer 6, 7, 14 to 16, 19, 23, 24, 29 and 30 were tested by separately adding one additional 5'-primer, respectively one additional 3'-primer. In primer solutions 18, 20, 22 and 26 to 28 it was only possible to test the 5'-primer, the 3'-primers were not possible to test. In primer solution 8, 21 and 25 it was only possible to test the 3'-primers, the 5'-primers were not possible to test.

In primer solutions 7 and 16 one 5'-primer was not possible to test, and in primer solutions 2, 3, 5, 6, 12, 15, 16, 19 and 29 one 3'-primer was not possible to test.

In addition, one 5'-primer in primer solution 5 was tested by adding an additional 3'-primer.

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

Date of approval: 2012-October-05

Approved by:

Production Quality Control

101.429-12 – including *Taq* polymerase, IFU-01
101.429-12u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: **21R**

Lot-specific Information

www.olerup-ssp.com

Declaration of Conformity

Product name: *Olerup* SSP[®] HLA-A*30
Product number: 101.429-12/12u
Lot number: 21R

Intended use: HLA-A*30 high resolution histocompatibility testing

Manufacturer: *Olerup* SSP AB
Franzengatan 5
SE-112 51 Stockholm, Sweden
Phone: +46-8-717 88 27
Fax: +46-8-717 88 18

We, *Olerup* SSP AB, hereby declare that this product, to which this Declaration of Conformity relates is in conformity with the following Standard(s) and other normative document(s) ISO 9001:2008 and ISO 13485:2003, following the provisions of the 98/79/EC Directive on *in vitro* diagnostic medical devices, Annex II List B, conformity assessed using Annex IV, as transposed into the national laws of the Member States of the European Union.

The Technical Documentation File is maintained at *Olerup* SSP AB, Franzengatan 5, SE-112 51 Stockholm, Sweden.

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

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

Stockholm, Sweden
2012-October-05

Ann-Cathrin Jareman
Head of QA and Regulatory Affairs

101.429-12 – including *Taq* polymerase, IFU-01
101.429-12u – without *Taq* polymerase, IFU-02

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Lot No.: **21R**

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Lot No.: **21R**

Lot-specific Information

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Fax: +43-1-710 15 00 10

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