

101.428-12 – including *Taq* polymerase, IFU-01
101.428-12u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: **92N**

Lot-specific Information

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Olerup SSP[®] HLA-A*29

Product number:	101.428-12 – including <i>Taq</i> polymerase 101.428-12u – without <i>Taq</i> polymerase
Lot number:	92N
Expiry date:	2015-February-01
Number of tests:	12
Number of wells per test:	24
Storage - pre-aliquoted primers:	dark at -20°C
- PCR Master Mix:	-20°C
- Adhesive PCR seals	RT
- Product Insert	RT

This Product Description is only valid for Lot No. 92N.

CHANGES COMPARED TO THE PREVIOUS *OLERUP SSP[®]* HLA-A*29 LOT (05M)

The HLA-A*29 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

One well has been added to the HLA-A*29 kit, well **24**.

The Lot-specific information for HLA-A*29 including and without *Taq* polymerase is now described in one common Product Insert.

¹As described in section Uniquely Identified Alleles.

The HLA-A*29 specificity and interpretation tables have been updated for the HLA-A alleles described since the previous *Olerup SSP[®]* HLA-A*29 lot was made (Lot No. 05M).

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Lot No.: **92N**

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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
16	Modified	-	Increased yield of HLA-specific PCR product.
19	Exchanged	-	Exchanged 5'-primer for decreased tendencies of primer oligomer formation.
24	New	New	New primer pair for the A*29:35 allele.

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PRODUCT DESCRIPTION

HLA-A*29 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the A*29:01 to A*29:35 alleles.

PLATE LAYOUT

Each test consists of 24 PCR reactions in a 24 well cut PCR plate.

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24

The 24 well cut PCR plate is marked with 'HLA-A*29' in silver/gray ink.

Well No. 1 is marked with the Lot No. '92N'.

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 24 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*29 SSP subtypings will be influenced by two A*01, five A*02, three A*03, the A*11:01:28, two A*23, five A*24, the A*26:22, the A*30:47, seven A*31, the A*32, seven A*33, the A*66*09, the A*68:58 and the A*74 alleles when present on the other haplotype.

UNIQUELY IDENTIFIED ALLELES

All the HLA-A*29 alleles, i.e. **A*29:01 to A*29:35 alleles**, recognized by the HLA Nomenclature Committee in April 2012¹ will be amplified by the primers in the HLA-A*29 subtyping kit.

The HLA-A*29 kit enables separation of the confirmed HLA-A*29 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*29 alleles is listed below.

The HLA-A*29 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*29 subtyping kit cannot distinguish following silent mutations: the A*29:01:01:01 and 29:01:02-29:01:03 alleles and the A*29:02:01:01-29:02:03 and 29:02:05-29:02:11 alleles.

¹HLA-A alleles listed on the IMGT/HLA web page 2012-April-12, release 3.8.0, www.ebi.ac.uk/imgt/hla.

ALLELE CONFIRMATION STATUS

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
A*29:01:01:01	Confirmed	A*29:06	Unconfirmed	A*29:26	Confirmed
A*29:01:01:02N	Unconfirmed	A*29:07	Unconfirmed	A*29:27	Unconfirmed
A*29:01:02	Unconfirmed	A*29:08N	Unconfirmed	A*29:28	Unconfirmed
A*29:01:03	Unconfirmed	A*29:09	Confirmed	A*29:29	Unconfirmed
A*29:01:04	Unconfirmed	A*29:10	Confirmed	A*29:30	Unconfirmed
A*29:02:01:01	Confirmed	A*29:11	Confirmed	A*29:31	Unconfirmed
A*29:02:01:02	Unconfirmed	A*29:12	Confirmed	A*29:32	Unconfirmed
A*29:02:02	Confirmed	A*29:13	Unconfirmed	A*29:33	Unconfirmed
A*29:02:03	Confirmed	A*29:14	Unconfirmed	A*29:34	Unconfirmed
A*29:02:04	Confirmed	A*29:15	Unconfirmed	A*29:35	Confirmed
A*29:02:05	Unconfirmed	A*29:16	Unconfirmed		
A*29:02:06	Confirmed	A*29:17	Unconfirmed		
A*29:02:07	Unconfirmed	A*29:18	Unconfirmed		
A*29:02:08	Unconfirmed	A*29:19	Unconfirmed		
A*29:02:09	Unconfirmed	A*29:20	Confirmed		
A*29:02:10	Unconfirmed	A*29:21	Confirmed		
A*29:02:11	Unconfirmed	A*29:22	Confirmed		
A*29:03	Unconfirmed	A*29:23	Unconfirmed		
A*29:04	Unconfirmed	A*29:24	Unconfirmed		
A*29:05	Unconfirmed	A*29:25	Unconfirmed		

¹Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2012-April-12, release 3.8.0, www.ebi.ac.uk/imgt/hla.

RESOLUTION IN HOMO- AND HETEROZYGOTES

A total of 62 alleles generate 32 amplification patterns that can be combined in 528 homozygous and heterozygous combinations. 228 of these genotypes do not give rise to unique amplification patterns. The different lengths of the specific PCR products were not considered in these calculations.

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```

*29:02:04, *29:02:04 = *29:02:04, *29:18
*29:02:04, *29:25 = *29:18, *29:25
*29:02:01:01, *29:35 = *29:35, *29:35
*29:02:01:01, *29:29 = *29:29, *29:29
*29:02:01:01, *29:22 = *29:22, *29:22
*29:02:01:01, *29:26 = *29:26, *29:26
*29:02:01:01, *29:23 = *29:23, *29:23
*29:02:01:01, *29:27 = *29:27, *29:27
*29:02:01:01, *29:21 = *29:21, *29:21
*29:02:01:01, *29:11 = *29:11, *29:11
*29:02:01:01, *29:02:04 = *29:02:01:01, *29:18

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Lot No.: 92N

Lot-specific Information

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---+-----	---+-----	-----	*29:02:01:01, *29:10 = *29:02:01:01, *29:14 = *29:10, *29:10 = *29:10, *29:14
---+-----	---+-----	-----	*29:02:01:01, *29:09 = *29:09, *29:09
---+-----	---+-----	-----	*29:02:01:01, *29:08N = *29:08N, *29:08N
---+-----	---+-----	-----	*29:02:01:01, *29:07 = *29:07, *29:07
---+-----	---+-----	-----	*29:02:01:01, *29:06 = *29:06, *29:06
---+-----	---+-----	-----	*29:02:01:01, *29:05 = *29:05, *29:05
---+-----	---+-----	-----	*29:02:01:01, *29:04 = *29:04, *29:04
---+-----	---+-----	-----	*29:02:01:01, *29:03 = *29:03, *29:03
---+-----	---+-----	-----	*29:01:01:01, *29:24 = *29:24, *29:24
---+-----	---+-----	-----	*29:01:01:01, *29:15 = *29:15, *29:15
---+-----	---+-----	-----	*29:01:01:01, *29:12 = *29:12, *29:12
---+-----	---+-----	-----	*29:01:01:01, *29:02:04 = *29:01:01:01, *29:18
---+-----	---+-----	-----	*29:01:01:01, *29:17 = *29:17, *29:17
---+-----	---+-----	-----	*29:01:01:01, *29:16 = *29:16, *29:16
---+-----	---+-----	-----	*29:01:01:01, *29:20 = *29:20, *29:20
---+-----	---+-----	-----	*29:01:01:01, *29:01:01:02N = *29:01:01:02N, *29:01:01:02N
---+-----	---+-----	-----	*29:02:04, *29:35 = *29:18, *29:35
---+-----	---+-----	-----	*29:02:04, *29:29 = *29:18, *29:29
---+-----	---+-----	-----	*29:02:04, *29:13 = *29:13, *29:18
---+-----	---+-----	-----	*29:02:04, *29:22 = *29:18, *29:22
---+-----	---+-----	-----	*29:02:04, *29:26 = *29:18, *29:26
---+-----	---+-----	-----	*29:02:04, *29:23 = *29:18, *29:23
---+-----	---+-----	-----	*29:02:04, *29:27 = *29:18, *29:27
---+-----	---+-----	-----	*29:02:04, *29:21 = *29:18, *29:21
---+-----	---+-----	-----	*29:02:04, *29:11 = *29:11, *29:18
---+-----	---+-----	-----	*29:10, *29:35 = *29:14, *29:35
---+-----	---+-----	-----	*29:10, *29:29 = *29:14, *29:29
---+-----	---+-----	-----	*29:10, *29:13 = *29:13, *29:14
---+-----	---+-----	-----	*29:10, *29:22 = *29:14, *29:22
---+-----	---+-----	-----	*29:10, *29:26 = *29:14, *29:26
---+-----	---+-----	-----	*29:10, *29:25 = *29:14, *29:25
---+-----	---+-----	-----	*29:10, *29:23 = *29:14, *29:23
---+-----	---+-----	-----	*29:10, *29:27 = *29:14, *29:27
---+-----	---+-----	-----	*29:10, *29:21 = *29:14, *29:21
---+-----	---+-----	-----	*29:10, *29:11 = *29:11, *29:14
---+-----	---+-----	-----	*29:02:04, *29:10 = *29:02:04, *29:14 = *29:10, *29:18
---+-----	---+-----	-----	*29:02:04, *29:09 = *29:09, *29:18
---+-----	---+-----	-----	*29:09, *29:10 = *29:09, *29:14
---+-----	---+-----	-----	*29:02:04, *29:08N = *29:08N, *29:18
---+-----	---+-----	-----	*29:08N, *29:10 = *29:08N, *29:14
---+-----	---+-----	-----	*29:02:04, *29:07 = *29:07, *29:18
---+-----	---+-----	-----	*29:07, *29:10 = *29:07, *29:14
---+-----	---+-----	-----	*29:02:04, *29:06 = *29:06, *29:18
---+-----	---+-----	-----	*29:06, *29:10 = *29:06, *29:14
---+-----	---+-----	-----	*29:02:04, *29:05 = *29:05, *29:18
---+-----	---+-----	-----	*29:05, *29:10 = *29:05, *29:14
---+-----	---+-----	-----	*29:02:01:01, *29:19 = *29:05, *29:06 = *29:05, *29:19 = *29:06, *29:19
---+-----	---+-----	-----	*29:02:04, *29:04 = *29:04, *29:18
---+-----	---+-----	-----	*29:04, *29:10 = *29:04, *29:14
---+-----	---+-----	-----	*29:02:04, *29:03 = *29:03, *29:18
---+-----	---+-----	-----	*29:03, *29:10 = *29:03, *29:14
---+-----	---+-----	-----	*29:02:04, *29:24 = *29:18, *29:24
---+-----	---+-----	-----	*29:02:04, *29:15 = *29:15, *29:18
---+-----	---+-----	-----	*29:02:04, *29:12 = *29:12, *29:18



101.428-12 – including *Taq* polymerase, IFU-01
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Lot No.: 92N

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+-----	-+--+++-	-----	*29:02:04, *29:17 = *29:17, *29:18
+-----	+--+--+	-----	*29:02:04, *29:16 = *29:16, *29:18
+-----	---+--+	-----	*29:02:04, *29:20 = *29:18, *29:20
+-----	-----++	+-----	*29:01:01:01, *29:27 = *29:02:01:01, *29:24 = *29:24, *29:27
+-----	-----+++	-----	*29:01:01:01, *29:21 = *29:02:01:01, *29:15 = *29:15, *29:21
+-----	-----+++	-----	*29:01:01:01, *29:11 = *29:02:01:01, *29:12 = *29:11, *29:12
+-----	---+--+	-----	*29:01:01:01, *29:10 = *29:01:01:01, *29:14
+-----	-+--+++	-----	*29:01:01:01, *29:09 = *29:02:01:01, *29:17 = *29:09, *29:17
+-----	+--+--+	-----	*29:01:01:01, *29:08N = *29:02:01:01, *29:16 = *29:08N, *29:16
+-----	-----++	-----	*29:01:01:01, *29:05 = *29:02:01:01, *29:20 = *29:05, *29:20
+-----	---+--+	-----	*29:01:01:02N, *29:02:04 = *29:01:01:02N, *29:18
---+--+	---+--+	-----	*29:02:04, *29:19 = *29:18, *29:19
---+--+	---+--+	-----	*29:10, *29:19 = *29:14, *29:19
+--+--+	-+--+++	-----	*29:01:01:01, *29:33 = *29:17, *29:33 = *29:20, *29:33 = *29:33, *29:33
+--+---	-----+++	+-----	*29:15, *29:27 = *29:21, *29:24
+--+---	-----+++	+-----	*29:11, *29:24 = *29:12, *29:27
+--+---	-----+++	-----	*29:11, *29:15 = *29:12, *29:21
+--+---	---+--+	+-----	*29:10, *29:24 = *29:14, *29:24
+--+---	---+--+	-----	*29:10, *29:15 = *29:14, *29:15
+--+---	---+--+	-----	*29:10, *29:12 = *29:12, *29:14
+--+---	-+--+++	+-----	*29:09, *29:24 = *29:17, *29:27
+--+---	-+--+++	-----	*29:09, *29:15 = *29:17, *29:21
+--+---	-+--+++	-----	*29:09, *29:12 = *29:11, *29:17
+--+---	-+--+++	-----	*29:10, *29:17 = *29:14, *29:17
+--+---	+--+--+	+-----	*29:08N, *29:24 = *29:16, *29:27
+--+---	+--+--+	-----	*29:08N, *29:15 = *29:16, *29:21
+--+---	+--+--+	-----	*29:08N, *29:12 = *29:11, *29:16
+--+---	+--+--+	-----	*29:10, *29:16 = *29:14, *29:16
+--+---	+--+--+	-----	*29:08N, *29:17 = *29:09, *29:16
+--+---	-----++	+-----	*29:05, *29:24 = *29:20, *29:27
+--+---	-----++	-----	*29:05, *29:15 = *29:20, *29:21
+--+---	-----++	-----	*29:05, *29:12 = *29:11, *29:20
+--+---	---+--+	-----	*29:10, *29:20 = *29:14, *29:20
+--+---	-+--+++	-----	*29:05, *29:17 = *29:09, *29:20
+--+---	+--+--+	-----	*29:05, *29:16 = *29:08N, *29:20
+--+---	-----++	-----	*29:01:01:01, *29:19 = *29:06, *29:20 = *29:19, *29:20
+++	---+--+	-----	*29:01:01:02N, *29:10 = *29:01:01:02N, *29:14
+--+---	-+--+++	-----	*29:02:04, *29:33 = *29:18, *29:33
+--+---	-+--+++	-----	*29:02:01:01, *29:33 = *29:03, *29:33 = *29:05, *29:33 = *29:09, *29:33
+--+---	-+--+++	-----	*29:10, *29:33 = *29:14, *29:33
+--+---	-+--+++	-----	*29:06, *29:33 = *29:19, *29:33

*29:01:01:01 = *29:01:01:01 and 29:01:02-29:01:03 and the 29:28
 *29:02:01:01 = * 29:02:01:01-29:02:03 and 29:02:05-29:02:11 and the 29:30-29:32
 *29:05 = *29:05 and 29:34



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www.olerup-ssp.com**SPECIFICITY TABLE****HLA-A*29 SSP subtyping**

Specificities and sizes of the PCR products of the 24 primer mixes used for
 HLA-A*29 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-A*29 alleles ³	Other amplified HLA-A alleles ⁴
1	480 bp	800 bp	*29:01:01:01-29:01:03, 29:12, 29:15-29:17, 29:20, 29:24, 29:28, 29:33	
2	130 bp	1070 bp	*29:01:01:02N	
3	440 bp	800 bp	*29:02:01:01-29:02:03, 29:02:05-29:11, 29:13-29:14, 29:19, 29:21-29:23, 29:26-29:27, 29:29-29:32, 29:34-29:35	
4	165 bp	800 bp	*29:03, 29:33	*23:03:01, 31:05, 32:13, 33:10
5	130 bp	1070 bp	*29:04	
6^{5,8}	105 bp, 130 bp	800 bp	*29:05, 29:19-29:20, 29:33-29:34	*11:01:28, 31:24, 32:02, 32:22, 33:59
7^{5,9}	105 bp, 210 bp	1070 bp	*29:06, 29:19	*31:51, 32:12
8⁵	85 bp	800 bp	*29:07	*24:17, 24:41
9^{5,6,10}	80 bp, 170 bp	1070 bp	*29:08N, 29:16	*03:27
10^{5,11}	95 bp, 170 bp	800 bp	*29:09, 29:17, 29:33	*03:01:18, 11:01:28, 31:24, 32:33, 33:34
11^{5,12}	100 bp, 195 bp	800 bp	*29:10, 29:14	
12^{5,6}	80 bp	800 bp	*29:02:04, 29:18	*32:01:01-32:01:07, 32:01:09-32:03, 32:05-32:41, 74:01-74:13, 74:15
13^{5,6,13}	85 bp, 165 bp	1070 bp	*29:11-29:12	*31:16, 33:58
14	200 bp	1070 bp	*29:01:01:01-29:13, 29:15-29:17, 29:19-29:35	
15	240 bp	1070 bp	*29:01:01:01-29:12, 29:14-29:18, 29:20-29:35	*33:13, 33:48

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Lot No.: 92N	Lot-specific Information			www.olerup-ssp.com
16 ^{5,6,14}	95 bp, 165 bp	1070 bp	*29:15, 29:21	*02:221, 23:41
17 ¹⁵	140 bp, 190 bp	1070 bp	*29:24, 29:27	
18	185 bp	1070 bp	*29:23	
19 ⁷	160 bp	1070 bp	*29:25	
20	505 bp	1070 bp	*29:26	
21	185 bp	1070 bp	*29:22	*01:20, 01:66, 02:19, 02:44, 02:149, 02:309, 03:95, 24:14, 24:93, 26:22, 30:47, 33:22, 66:09
22	260 bp	1070 bp	*29:13	*24:82, 31:07-31:08, 31:10
23 ⁵	115 bp	800 bp	*29:29	*68:58
24 ⁵	120 bp	1070 bp	*29:35	

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*29 SSP typings.

When the primers in a primer mix can give rise to specific PCR products of more than one length this is indicated if the size difference is 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 specific PCR product(s) of the alleles amplified by these primer mixes are given.

Nonspecific amplifications, i.e. a ladder or a smear of bands, may sometimes be seen. GC-rich primers have a higher tendency of giving rise to nonspecific amplifications than other primers.

PCR fragments longer than the control bands may sometimes be observed. Such bands should be disregarded and do not influence the interpretation of the SSP typings.

PCR fragments migrating faster than the control bands, but slower than a 400 bp fragment may be seen in some gel read-outs. Such bands can be disregarded and do not influence the interpretation of the SSP typings.

Some primers may give rise to primer oligomer artifacts. Sometimes this phenomenon is an inherent feature of the primer pair(s) of a primer mix. More often it is due to other factors such as too low amount of DNA in the PCR reactions, taking too long time in setting up the PCR reactions, working at elevated room temperature or using thermal cyclers that are not pre-heated.

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

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-A*29 subtyping.

In addition, wells number 3, 4, 6, 8, 10 to 12 and 23 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*29 alleles 4th exon or 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 a few non-HLA-A*29 alleles will be amplified by primer mixes 4, 6 to 10, 12, 13, 15, 16 and 21 to 23.

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

⁶Primer mixes 9, 12, 13 and 16 may give rise to nonspecific amplifications.

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101.428-12u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: 92N

Lot-specific Information

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⁷Primer mix 19 may have tendencies of giving rise to primer oligomer formation.

⁸Primer mix 6: Specific PCR fragment of 105 bp in the A*29:19, 29:20 and 29:34 alleles. Specific PCR fragment of 130 bp in the A*29:05 and 29:33 and the A*11:01:28, 31:24, 32:02, 32:22 and 33:59 alleles.

⁹Primer mix 7: Specific PCR fragment of 105 bp in the A*29:19 allele. Specific PCR fragment of 210 bp in the A*29:06 and the A*31:51 and 32:12 alleles.

¹⁰Primer mix 9: Specific PCR fragment of 80 bp in the A*29:16 and in the A*03:27 alleles. Specific PCR fragment of 170 bp in the A*29:08N allele.

¹¹Primer mix 10: Specific PCR fragment of 95 bp in the A*29:09 and 29:33 and the A*03:01:18, 11:01:28, 31:24, 32:33 and 33:34 alleles. Specific PCR fragment of 170 bp in the A*29:17 allele.

¹²Primer mix 11: Specific PCR fragment of 100 bp in the A*29:14 allele. Specific PCR fragment of 195 bp in the A*29:10 allele.

¹³Primer mix 13: Specific PCR fragment of 85 bp in the A*29:11 allele. Specific PCR fragment of 165 bp in the A*29:12 and the A*31:16 and 33:58 alleles.

¹⁴Primer mix 16: Specific PCR fragment of 95 bp in the A*29:15 and the A*02:221 and 23:41 alleles. Specific PCR fragment of 165 bp in the A*29:21 allele.

¹⁵Primer mix 17: Specific PCR fragment of 140 bp in the A*29:24 allele. Specific PCR fragment of 190 bp in the A*29:27 allele.

101.428-12 – including *Taq* polymerase, IFU-01
 101.428-12u – without *Taq* polymerase, IFU-02

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Lot No.: 92N

Lot-specific Information

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INTERPRETATION TABLE												
HLA-A*29 SSP subtyping												
Amplification patterns of the A*29:01 to 29:35 alleles												
	Well ⁵											
	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	480	130	440	165	130	105	105	85	80	95	100	80
PCR product(s)						130	210		170	170	195	
Length of int.	800	1070	800	800	1070	800	1070	800	1070	800	800	800
pos. control ¹												
5'-primer(s) ²	180	808	219	448	180	219	219	368	97	130	180	180
	5'-TTT ^{3'}	5'-CgT ^{3'}	5'-gCA ^{3'}	5'-CCT ^{3'}	5'-TTT ^{3'}	5'-gCA ^{3'}	5'-gCA ^{3'}	5'-gTT ^{3'}	5'-TCA ^{3'}	5'-AgA ^{3'}	5'-TTT ^{3'}	5'-TTT ^{3'}
						448	448		413	448	448	
						5'-CCT ^{3'}	5'-CCT ^{3'}		5'-CCg ^{3'}	5'-CCT ^{3'}	5'-CCT ^{3'}	
3'-primer(s) ³	376	895	376	570	268	282	282	413	224	257	238	218
	5'-gTg ^{3'}	5'-CTC ^{3'}	5'-gTC ^{3'}	5'-CCg ^{3'}	5'-ATg ^{3'}	5'-gAg ^{3'}	5'-gAg ^{3'}	5'-gCC ^{3'}	5'-TCT ^{3'}	5'-gCA ^{3'}	5'-CCT ^{3'}	5'-gCg ^{3'}
						282	616		454	502	601	
						5'-gAg ^{3'}	5'-CgC ^{3'}		5'-CTg ^{3'}	5'-CTT ^{3'}	5'-CTT ^{3'}	
						539						
						5'-TCT ^{3'}						
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
HLA-A allele ⁴												
*29:01:01:01, 29:01:02-29:01:03, 29:28	1											
*29:01:01:02N	1	2										
*29:02:01:01-29:02:03, 29:02:05-29:02:11, 29:30-29:32			3									
*29:02:04												12
*29:03			3	4								
*29:04			3		5							
*29:05, 29:34			3			6						
*29:06			3				7					
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

101.428-12 – including *Taq* polymerase, IFU-01
 101.428-12u – without *Taq* polymerase, IFU-02

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

Lot No.: **92N**

Lot-specific Information

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INTERPRETATION TABLE												
HLA-A*29 SSP subtyping												
Amplification patterns of the A*29:01 to 29:35 alleles												
Well ⁵												
13	14	15	16	17	18	19	20	21	22	23	24	
85	200	240	95	140	185	160	505	185	260	115	120	Length of spec. PCR product(s) Length of int. pos. control ¹
165			165	190								
1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	800	1070	
97	98	98	134	448	180	98	3 ^r d	355	98	355	448	5'-primer(s) ²
5'-TCA ^{3'}	5'-CAC ^{3'}	5'-CAC ^{3'}	5'-CCT ^{3'}	5'-CCT ^{3'}	5'-TTT ^{3'}	5'-CAC ^{3'}	5'-ATA ^{3'}	5'-CCg ^{3'}	5'-CAC ^{3'}	5'-CCA ^{3'}	5'-CCT ^{3'}	
448			484									
5'-CCT ^{3'}			5'-ACg ^{3'}									
221	257	299	257	545	326	217	667	497	317	430	526	3'-primer(s) ³
5'-ACA ^{3'}	5'-gCA ^{3'}	5'-TCg ^{3'}	5'-gCA ^{3'}	5'-AgC ^{3'}	5'-TgA ^{3'}	5'-TgA ^{3'}	5'-ggT ^{3'}	5'-TgA ^{3'}	5'-ggA ^{3'}	5'-gCT ^{3'}	5'-CAT ^{3'}	
494			538	595								
5'-TCg ^{3'}			5'-CAA ^{3'}	5'-CCA ^{3'}								
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
												HLA-A allele ⁴
	14	15										*29:01:01:01, 29:01:02- 29:01:03, 29:28
	14	15										*29:01:01:02N
	14	15										*29:02:01:01-29:02:03, 29:02:05-29:02:11, 29:30-29:32
	14	15										*29:02:04
	14	15										*29:03
	14	15										*29:04
	14	15										*29:05, 29:34
	14	15										*29:06
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

101.428-12 – including *Taq* polymerase, IFU-01
 101.428-12u – without *Taq* polymerase, IFU-02

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

Lot No.: **92N**

Lot-specific Information

www.olerup-ssp.com

Length of spec.	480	130	440	165	130	105	105	85	80	95	100	80
PCR product(s)						130	210		170	170	195	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*29:07			3					8				
*29:08N			3						9			
*29:09			3							10		
*29:10			3								11	
*29:11			3									
*29:12	1											
*29:13			3									
*29:14			3								11	
*29:15	1											
*29:16	1								9			
*29:17	1									10		
*29:18												12
*29:19			3			6	7					
*29:20	1					6						
*29:21			3									
*29:22			3									
*29:23			3									
*29:24	1											
*29:25												
*29:26			3									
*29:27			3									
*29:29			3									
*29:33	1			4		6				10		
*29:35			3									
*01:20, 01:66, 02:19, 02:44, 02:149, 02:309, 03:95, 24:14, 24:93, 26:22, 30:47, 33:22, 66:09												
*02:221, 23:41												
*03:01:18, 33:34										10		
*03:27									9			
*11:01:28, 31:24						6				10		
*23:03:01, 31:05, 33:10				4								
*24:17, 24:41								8				
*24:82, 31:07-31:08, 31:10												
*31:16, 33:58												
*31:51							7					
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

101.428-12 – including *Taq* polymerase, IFU-01
 101.428-12u – without *Taq* polymerase, IFU-02

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Lot No.: **92N**

Lot-specific Information

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85	200	240	95	140	185	160	505	185	260	115	120	Length of spec. PCR product(s)
165			165	190								Well No.
13	14	15	16	17	18	19	20	21	22	23	24	
	14	15										*29:07
	14	15										*29:08N
	14	15										*29:09
	14	15										*29:10
13	14	15										*29:11
13	14	15										*29:12
	14								22			*29:13
		15										*29:14
	14	15	16									*29:15
	14	15										*29:16
	14	15										*29:17
		15										*29:18
	14											*29:19
	14	15										*29:20
	14	15	16									*29:21
	14	15						21				*29:22
	14	15			18							*29:23
	14	15		17								*29:24
	14	15				19						*29:25
	14	15					20					*29:26
	14	15		17								*29:27
	14	15								23		*29:29
	14	15										*29:33
	14	15									24	*29:35
								21				*01:20, 01:66, 02:19, 02:44, 02:149, 02:309, 03:95, 24:14, 24:93, 26:22, 30:47, 33:22, 66:09
			16									*02:221, 23:41
												*03:01:18, 33:34
												*03:27
												*11:01:28, 31:24
												*23:03:01, 31:05, 33:10
												*24:17, 24:41
								22				*24:82, 31:07-31:08, 31:10
13												*31:16, 33:58
												*31:51
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

101.428-12 – including *Taq* polymerase, IFU-01
101.428-12u – without *Taq* polymerase, IFU-02

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

Lot No.: **92N**

Lot-specific Information

www.olerup-ssp.com

Length of spec.	480	130	440	165	130	105	105	85	80	95	100	80
PCR product(s)						130	210		170	170	195	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*32:01:01-32:01:07, 32:01:09-32:01:13, 32:03, 32:05-32:11Q, 32:14-32:21, 32:23-32:32, 32:34-32:41, 74:01-74:13, 74:15												12
*32:02, 32:22						6						12
*32:12							7					12
*32:13				4								12
*32:33										10		12
*33:13, 33:48												
*33:59						6						
*68:58												
HLA-A allele												
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

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*29 subtyping. .

In addition, wells number 3, 4, 6, 8, 10 to 12 and 23 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 or in the 3rd 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.

⁴HLA-A*29 alleles in bold lettering are listed as confirmed alleles on the on the IMGT/HLA web page www.ebi.ac.uk/imgt/hla, release 3.8.0, April 2012.

101.428-12 – including *Taq* polymerase, IFU-01
 101.428-12u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **92N**

Lot-specific Information

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85	200	240	95	140	185	160	505	185	260	115	120	Length of spec. PCR product(s)
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
			165	190								*32:01:01-32:01:07, 32:01:09- 32:01:13, 32:03, 32:05- 32:11Q, 32:14-32:21, 32:23- 32:32, 32:34-32:41, 74:01- 74:13, 74:15
												*32:02, 32:22
												*32:12
												*32:13
												*32:33
		15										*33:13, 33:48
												*33:59
										23		*68:58
												HLA-A allele
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

⁵Primer mix 6: Specific PCR fragment of 105 bp in the A*29:19, 29:20 and 29:34 alleles. Specific PCR fragment of 130 bp in the A*29:05 and 29:33 and the A*11:01:28, 31:24, 32:02, 32:22 and 33:59 alleles.

Primer mix 7: Specific PCR fragment of 105 bp in the A*29:19 allele. Specific PCR fragment of 210 bp in the A*29:06 and the A*31:51 and 32:12 alleles.

Primer mix 9: Specific PCR fragment of 80 bp in the A*29:16 and in the A*03:27 alleles. Specific PCR fragment of 170 bp in the A*29:08N allele.

Primer mix 10: Specific PCR fragment of 95 bp in the A*29:09 and 29:33 and the A*03:01:18, 11:01:28, 31:24, 32:33 and 33:34 alleles. Specific PCR fragment of 170 bp in the A*29:17 allele.

Primer mix 11: Specific PCR fragment of 100 bp in the A*29:14 allele. Specific PCR fragment of 195 bp in the A*29:10 allele.

Primer mix 13: Specific PCR fragment of 85 bp in the A*29:11 allele. Specific PCR fragment of 165 bp in the A*29:12 and the A*31:16 and 33:58 alleles.

alleles. Specific PCR fragment of 165 bp in the A*29:21 allele.

Primer mix 17: Specific PCR fragment of 140 bp in the A*29:24 allele. Specific PCR fragment of 190 bp in the A*29:27 allele.

101.428-12 – including *Taq* polymerase, IFU-01
 101.428-12u – without *Taq* polymerase, IFU-02

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Lot No.: **92N**

Lot-specific Information

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CELL LINE VALIDATION SHEET																				
HLA-A*29 SSP subtyping kit																				
				Lot No.:	Well															
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
					200958401	200958402	200958403	201203204	201184705	201071406	200958407	201184708	200958409	201203210	201071411	201184712	200958413	201071414	201071415	201203216
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	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		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.428-12 – including *Taq* polymerase, IFU-01
 101.428-12u – without *Taq* polymerase, IFU-02

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

Lot No.: **92N**

Lot-specific Information

www.olerup-ssp.com

CELL LINE VALIDATION SHEET											
HLA-A*29 SSP subtyping kit											
				Well							
				17	18	19	20	21	22	23	24
				201184717	201184718	201203219	201184720	201184721	201184722	201184723	201203224
			Lot No.:								
	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	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	-	-	-	-	-	-	-	-

101.428-12 – including *Taq* polymerase, IFU-01
 101.428-12u – without *Taq* polymerase, IFU-02

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

Lot No.: **92N**

Lot-specific Information

www.olerup-ssp.com

CERTIFICATE OF ANALYSIS

Olerup SSP® HLA-A*29 SSP

Product number: 101.428-12 – including *Taq* polymerase
 101.428-12u – without *Taq* polymerase
Lot number: 92N
Expiry date: 2015-February-01
Number of tests: 12
Number of wells per test: 24

Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2009-584-01	9	2009-584-09	17	2011-847-17
2	2009-584-02	10	2012-032-10	18	2011-847-18
3	2009-584-03	11	2010-714-11	19	2012-032-19
4	2012-032-04	12	2011-847-12	20	2011-847-20
5	2011-847-05	13	2009-584-13	21	2011-847-21
6	2010-714-06	14	2010-714-14	22	2011-847-22
7	2009-584-07	15	2010-714-15	23	2011-847-23
8	2011-847-08	16	2012-032-16	24	2012-032-24

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

No DNAs carrying the alleles to be amplified by primer solutions 2, 4 to 7, 9 to 11, 13 and 17 to 24 were available. The specificities of the primers in primer solutions 4, 6, 7, 10, 11, 21 and 22 were tested by separately adding one additional 5'-primer, respectively one additional 3'-primer. In primer solutions 2, 5, 9, 13, 17 to 20, 23 and 24 it was only possible to test the 5'-primers, the 3'-primers were not possible to test. In primer solution 6 and 7 one of the 3'-primers was not possible to test, and in primer solutions 10 and 16 one of the 5'-primers was not possible to test. In primer solution 16, one additional 3'-primer was tested by separately adding one 5'-primer.

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

Date of approval: 2012-August-17

Approved by:

Production Quality Control

101.428-12 – including *Taq* polymerase, IFU-01
101.428-12u – without *Taq* polymerase, IFU-02

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Lot No.: **92N**

Lot-specific Information

www.olerup-ssp.com

Declaration of Conformity

Product name: *Olerup* SSP® HLA-A*29
Product number: 101.428-12
Lot number: 92N

Intended use: HLA-A*29 high resolution histocompatibility testing

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

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

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

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

Stockholm, Sweden
2012-August-17

Ann-Cathrin Jareman
Head of QA and Regulatory Affairs

101.428-12 – including *Taq* polymerase, IFU-01
101.428-12u – without *Taq* polymerase, IFU-02

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

Lot No.: **92N**

Lot-specific Information

www.olerup-ssp.com

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