HLA-A*66 Product Insert Page 1 of 16

101.427-06 – including *Taq* **polymerase**

General "Instructions for Use" IFU-01 Rev. No. 02 can be downloaded from

Lot No.: 08L Lot-specific information www.olerup-ssp.com

Olerup SSP® HLA-A*66

Product number: 101.427-06 – including Taq polymerase

Lot number: 08L

Expiry date: 2013-August-01

Number of tests: 6 Number of wells per test: 14

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. 08L.

CHANGES COMPARED TO THE PREVIOUS OLERUP SSP® HLA-A*66 LOT

The HLA-A*66 specificity and interpretation tables have been updated for the HLA-A alleles described since the previous *Olerup* SSP® HLA-A*66 lot was made **(Lot No. 34G)**.

Two wells have been added to the HLA-A*66 kit, wells **13 and 14**.

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

Well	5'-primer	3'-primer	rationale
3	-	Added	Primer added for the A*66:15 allele.
9	-	Added	Primer added for the A*66:14 allele.
11	-	Added	Primer added for the A*66:14 allele.
13	New	New	New primer pairs for the A*66:11 and A*66:13 alleles.
14	New	New	New primer pair for the A*66:12 allele.

101.427-06 – including *Taq* polymerase

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PRODUCT DESCRIPTION

HLA-A*66 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the HLA-A*66:01 to A*66:15 alleles.

PLATE LAYOUT

Each test consists of 12 PCR reactions in a 16 well cut PCR plate.

1	2	3	4	5	6	7	8
9	10	11	12	13	14	empty	empty

The 16 well cut PCR plate is marked with 'HLA-A*66' in silver/gray ink.

Well No. 1 is marked with the Lot No. '08L'.

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 heat-sealed with a PCR-compatible foil.

Please note: When removing each 16 well PCR plate, make sure that the remaining plates stay sealed. Use a scalpel or a similar instrument to carefully cut the foil between the plates.

INTERPRETATION

The interpretation of HLA-A*66 SSP subtypings will be influenced by the A*01, several A*02 alleles, four A*03 alleles, the A*11, three A*24 alleles, the A*25, the A*26, two A*31 allele, two A*33 alleles, the A*34, the A*36, the A*43:01 allele, most A*68 alleles, the A*69:01, the A*74:10 and the A*80 alleles when present on the other haplotype.

UNIQUELY IDENTIFIED ALLELES

All the HLA-A*66 alleles, i.e. **A*66:01 to A*66:15 alleles**, recognized by the HLA Nomenclature Committee in October 2010¹ will give rise to unique amplification patterns by the primers in the HLA-A*66 subtyping kit.

¹HLA-A alleles listed on the IMGT/HLA web page 2010-October-15, release 3.2.0, www.ebi.ac.uk/imgt/hla.

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RESOLUTION IN HOMO- AND HETEROZYGOTES

A total of 15 alleles generate 15 amplification patterns that can be combined in 120 homozygous and heterozygous combinations. 62 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.

```
*66:01, *66:07 = *66:04, *66:05 = *66:04, *66:07 = *66:04, *66:15 =
+++-++-+ -----
             *66:05, *66:07 = *66:07, *66:07 = *66:07, *66:15
+++-++- *66:04, *66:11 = *66:04, *66:13
+++-++-- *66:01, *66:04 = *66:04, *66:04
+++--+-+ +-+--- *66:05, *66:14 = *66:14, *66:15
+++--+- *66:05, *66:09 = *66:09, *66:15
+++--+- *66:05, *66:10 = *66:10, *66:15
+++--+- *66:05, *66:08 = *66:08, *66:15
+++--+-- *66:05, *66:11 = *66:05, *66:13 = *66:11, *66:15 = *66:13, *66:15
+++--+- *66:01, *66:05 = *66:01, *66:15
+++--+- +-+-+ *66:11, *66:14 = *66:13, *66:14
*66:14, *66:14
+++--+- +---- *66:01, *66:06 = *66:06, *66:06
+++--+-- *66:01, *66:09 = *66:09, *66:09
+++--+- *66:10, *66:11 = *66:10, *66:13
+++--+-- *66:01, *66:10 = *66:10, *66:10
+++--+- *66:08, *66:11 = *66:08, *66:13
+++--+-- *66:01, *66:08 = *66:08, *66:08
+++--+-- *66:01, *66:11 = *66:01, *66:13 = *66:11, *66:13 = *66:13, *66:13
+-++-++ *66:02, *66:05 = *66:02, *66:15
+-+--+ *66:05, *66:12 = *66:12, *66:15
```

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SPECIFICITY TABLE

HLA-A*66 SSP subtyping

Specificities and sizes of the PCR products of the 14 primer mixes used for

HLA-A*66 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-A*66 alleles ³	Other amplified HLA-A alleles ⁴
1 ⁶	175 bp	800 bp	*66:01, 66:04-66:15	*02:135, 25:01:01-25:05, 25:07-25:13, 26:01:01-26:03:02, 26:05-26:08, 26:10-26:33, 26:35-26:43:02, 26:45-26:56, 43:01
25	100 bp	1070 bp	*66:01, 66:04, 66:06- 66:11, 66:13- 66:14	*01:13, 01:17, 03:63, 03:88, 11:01:01-11:11, 11:13-11:16, 11:20-11:27, 11:29-11:39, 11:41-11:80, 25:02, 26:13, 26:19, 26:33, 34:01:01-34:06, 34:08
3	430 bp	1070 bp	*66:01-66:02, 66:04, 66:06- 66:15	*02:11:01-02:11:02, 02:34-02:35:03, 02:56:01-02:56:02, 02:62, 02:69, 02:78, 02:103, 02:128, 24:19, 26:13, 26:19, 34:01:01-34:08, 68:01:01-68:01:07, 68:02:01:01-68:02:04, 68:04, 68:06-68:14, 68:16-68:19, 68:21-68:30, 68:32-68:35, 68:37-68:54, 69:01
4	175 bp	1070 bp	*66:02-66:03	
5 ^{5,7}	70 bp, 100 bp	800 bp	*66:04, 66:07	*02:55, 26:03:01-26:03:02, 26:06, 26:21, 26:30, 33:24, 68:05, 68:15, 68:20
6 ⁵	80 bp	800 bp	*66:01, 66:04-66:10, 66:13-66:15	*01:13, 01:28, 03:63, 03:88, 11:01:01-11:11, 11:13-11:16, 11:19-11:27, 11:29-11:39, 11:41-11:44, 11:46-11:80, 24:19, 24:44, 26:03:01-26:03:02, 26:06, 26:21, 31:03, 34:01:01-34:08, 80:02
7	560 bp	1070 bp	*66:03	*02:16, 02:131
8 ⁵	95 bp	1070 bp	*66:05, 66:07, 66:15	*01:01:01:01-01:04N, 01:06, 01:08-01:12, 01:14-01:16N, 01:18N-01:70, 01:72-01:81, 03:41, 11:17, 11:19, 11:40, 24:44w, 24:109w, 25:01:01-25:01:04, 25:03-25:12N, 26:01:01-26:12, 26:14-26:18, 26:20-26:29, 26:31-26:32, 26:34-26:43:02, 26:45-26:56, 31:03, 33:13, 36:01-36:05, 43:01, 74:10, 80:01-80:02
08	155 b	1070 -	*00.00 00.44	*00,04,40, 00,40,04, 00,40,00, 04,00
9 ⁸	155 bp,	1070 bp	*66:06, 66:14	*03:01:19, 26:43:01-26:43:02, 31:03-

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	235 bp			31:04, 34:02-34:04, 34:06-34:09
10	205 bp	1070 bp	*66:09	*02:03:01-02:03:03, 02:25, 02:38, 02:117, 02:148, 02:171:01-02:171:02, 02:230, 02:253, 02:258, 02:264, 02:267, 02:280-02:281, 26:22
11 ⁹	190 bp, 235 bp	1070 bp	*66:10, 66:14	*26:29, 26:49
12	220 bp	1070 bp	*66:08	*34:01:01?-34:01:02?, 34:05?
13 ¹⁰	305 bp, 440 bp	1070 bp	*66:11, 66:13	
14	360 bp	1070 bp	*66:02-66:03, 66:12	*02:135, 03:01:19, 25:13, 26:30, 31:04, 34:09

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*66 SSP typings.

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

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

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

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

Some primers may give rise to primer oligomer artifacts. Sometimes this phenomenon is an inherit 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*66 subtyping.

In addition, wells number 5 and 6 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 exon 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 the 1st exon are conserved within allelic groups.

⁴Due to the sharing of sequence motifs between HLA-A alleles non-HLA-A*66 alleles will be amplified by primer mixes 1 to 3, 5 to 12 and 14.

⁵Specific PCR fragments shorter than 125 base pairs have a lower intensity than longer PCR bands.

⁶Primer mix 1 may give rise to a PCR fragment approx. 500 bp in size. This band should be disregarded in the interpretation of HLA-A*66 subtypings.

⁷Primer mix 5: Specific PCR fragment of 70 bp in the A*02:55, 26:03:01-26:03:02, 26:06, 26:21, 26:30, 33:24, 68:05, 68:15 and 68:20 alleles. Specific PCR fragment of 100 bp in the A*66:04 and A*66:07 alleles.

⁸Primer mix 9: Specific PCR fragment of 155 bp in the A*66:06 and in the A*03:01:19, 26:43:01-26:43:02, 31:03-31:04, 34:02-34:04 and 34:06-34:09 alleles. Specific PCR fragment of 235 bp in the A*66:14 allele.

⁹Primer mix 11: Specific PCR fragment of 190 bp in the A*66:10 and in the A*26:29 and 26:49 alleles. Specific PCR fragment of 235 bp in the A*66:14 allele.

¹⁰Primer mix 13: Specific PCR fragment of 305 bp in the A*66:13 allele. Specific PCR fragment of 440 bp in the A*66:11 allele.

'w', might be weakly amplified.

"?", nucleotide sequence of the primer matching sequence is not known.

	INTERPRE	TAT	ION 1	ABL	E			
	HLA-A*66	SSP	subty	vpina				
Amplificatio	n patterns of					allele	S	
•	•				ell ⁴			
	1	2	3	4	5	6	7	8
Length of spec.	175	100	430	175	70	80	560	95
PCR product(s)					100			
Length of int.	800	1070	1070	1070	800	800	1070	1070
pos. control ¹								
5'-primer(s) ²	418	282	28	423	261	302	282	282
c primer(c)	^{5'} -AgA ³	^{5'} -CAg ³	^{5'} -TCg ^{3'}	^{5'} -gCT ^{3'}	^{5'} -AAC ^{3'}	^{5'} -ggA ³	5' -CAC 3'	^{5'} -CAC ³
	423				517			517
	^{5'} -gCT ³				^{5'} -AgA ^{3'}			^{5'} -AgA ³
3'-primer(s) ³	559	341	282	559	292	341	559	341
o primor(o)	^{5'} -CCg ³	^{5'} -CgT ^{3'}	^{5'} -gAC ^{3'}	^{5'} -CTC ^{3'}	^{5'} -gTg ^{3'}	^{5'} -CgT ^{3'}	5' -CTC 3'	^{5'} -CgT ^{3'}
	559		290		566			566
	^{5'} -CCg ³		^{5'} -CAA ^{3'}		^{5'} -CCg ^{3'}			5' -CCg ³
					583			
					^{5'} -gTg ^{3'}			
Well No.	1	2	3	4	5	6	7	8
HLA-A allele								
*66:01	1	2	3			6		
*66:02			3	4				
*66:03				4			7	
*66:04	1	2	3		5	6		
*66:05	1					6		8
*66:06	1	2	3			6		
*66:07	1	2	3		5	6		8
*66:08	1	2	3			6		
*66:09	1	2	3			6		
*66:10	1	2	3			6		
*66:11	1	2	3					
*66:12	1		3					
*66:13	1	2	3			6		
*66:14	1	2	3			6		
*66:15	1		3			6		8
Well No.	1	2	3	4	5	6	7	8

	INTERPRETATION TABLE									
	HLA-A*66 SSP subtyping									
-	Amplifi					A-A*66:01 to 66:15 alleles				
		ell ⁴	-							
9	10	11	12	13	14					
155	205	190	220	305	360	Length of spec.				
235		235		440		PCR product(s)				
1070	1070	1070	1070	1070	1070	Length of int.				
						pos. control ¹				
423	355	423	652	28	341	5'-primer(s) ²				
^{5'} -gCT ^{3'}	^{5'} -CCg ^{3'}	^{5'} -gCT ^{3'}	^{5'} -CTg ^{3'}	^{5'} -TCg ^{3'}	^{5'} -ggC ^{3'}	σ p::σ.(σ)				
					•					
539	517	570	829	164	418	3'-primer(s) ³				
^{5'} -TCA ^{3'}	^{5'} -CgT ^{3'}	^{5'} -CCg ^{3'}	^{5'} -CTC ^{3'}	^{5'} -gCA ^{3'}	^{5'} -gTC ^{3'}					
616		616		299						
^{5'} -CgC ^{3'}		^{5'} -CgC ^{3'}		^{5'} -CCg ^{3'}						
9	10	11	12	13	14	Well No.				
						HLA-A allele				
						*66:01				
					14	*66:02				
					14	*66:03				
						*66:04				
						*66:05				
9						*66:06				
						*66:07				
			12			*66:08				
	10					*66:09				
		11				*66:10				
				13		*66:11				
					14	*66:12				
				13		*66:13				
9		11				*66:14				
						*66:15				
9	10	11	12	13	14	Well No.				

l angth of ange	175	100	430	175	70	80	560	95
Length of spec.	175	100	430	175		ου	360	90
PCR product(s)	4	•	_	4	100		-	_
Well No.	1	2	3	4	5	6	7	8
*01:01:01:01-01:04N, 01:06,								
01:08-01:12, 01:14-01:16N,								
01:18N-01:27N, 01:29-01:70,								
01:72-01:81, 03:41, 11:17,								8
11:40, 25:06, 26:04, 26:09,								
26:34, 33:13, 36:01-36:05,								
74:10, 80:01								
*01:13, 03:63, 03:88, 11:01:01-								
11:11, 11:13-11:16, 11:20-		2				6		
11:27, 11:29-11:39, 11:41-						O		
11:44, 11:46-11:80								
*01:17, 11:45		2						
*01:28, 11:19, 80:02						6		8
*02:03:01-02:03:03, 02:25,								
02:38, 02:117, 02:148,								
02:171:01-02:171:02, 02:230,								
02:253, 02:258, 02:264,								
02:267, 02:280-02:281								
*02:11:01-02:11:02, 02:34-								
02:35:03, 02:56:01-02:56:02,								
02:62, 02:69, 02:78, 02:103,								
02:128, 68:01:01-68:01:07,								
68:02:01:01-68:02:04, 68:04,			3					
68:06-68:14, 68:16-68:19,								
68:21-68:30, 68:32-68:35,								
68:37-68:54, 69:01								
*02:16, 02:131							7	
*02:55, 33:24, 68:05, 68:15,							,	
68:20					5			
*02:135, 25:13	1							
*03:01:19, 31:04, 34:09	-							
*24:19			3			6		
*24:44			3			6		w
*24:109						U		
	1	2	2	A	E	e	7	W
Well No.	ı	2	3	4	5	6	7	8

205 190 220 305 360	Length of spec.
235 440	PCR product(s)
10 11 12 13 14	Well No.
*01:0	01:01:01-01:04N, 01:06,
01:0	08-01:12, 01:14-01:16N,
01:18	3N-01:27N, 01:29-01:70,
01	:72-01:81, 03:41, 11:17,
11	:40, 25:06, 26:04, 26:09,
26	5:34, 33:13, 36:01-36:05,
	74:10, 80:01
*01:13	3, 03:63, 03:88, 11:01:01 -
11	:11, 11:13-11:16, 11:20-
11	:27, 11:29-11:39, 11:41-
	11:44, 11:46-11:80
	*01:17, 11:45
	*01:28, 11:19, 80:02
*02	2:03:01-02:03:03, 02:25,
	02:38, 02:117, 02:148,
10 02:17	1:01-02:171:02, 02:230,
	02:253, 02:258, 02:264,
	02:267, 02:280-02:281
*02	2:11:01-02:11:02, 02:34-
02:35	5:03, 02:56:01-02:56:02,
02:6	62, 02:69, 02:78, 02:103,
02:	128, 68:01:01-68:01:07,
68:02	2:01:01-68:02:04, 68:04,
68	3:06-68:14, 68:16-68:19,
68	3:21-68:30, 68:32-68:35,
	68:37-68:54, 69:01
	*02:16, 02:131
*02	:55, 33:24, 68:05, 68:15,
	68:20
14	*02:135, 25:13
14	*03:01:19, 31:04, 34:09
	*24:19
	*24:44
	*24:109
10 11 12 13 14	Well No.

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Length of spec.	175	100	430	175	70	80	560	95
PCR product(s)					100			
Well No.	1	2	3	4	5	6	7	8
*25:01:01-25:01:04, 25:03-								
25:05, 25:07-25:12N,								
26:01:01-26:02, 26:05,								
26:07:01-26:08, 26:10-26:12,								•
26:14-26:18, 26:20, 26:23-	1							8
26:28, 26:31-26:32, 26:35-								
26:42, 26:45-26:48, 26:50-								
26:56, 43:01								
*25:02, 26:33	1	2						
*26:03:01-26:03:02, 26:06,	4				_	_		_
26:21	1				5	6		8
*26:13, 26:19	1	2	3					
*26:22	1							8
*26:29, 26:49	1							8
*26:30	1				5			
*26:43:01-26:43:02	1							8
*31:03						6		8
*34:01:01-34:01:02, 34:05		2	3			6		
*34:02-34:04, 34:06, 34:08		2	3			6		
*34:07			3			6		
HLA-A allele								
Well No.	1	2	3	4	5	6	7	8

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*66 subtyping. .

In addition, wells number 5 and 6 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

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

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155	205	190	220	305	360	Length of spec.
235		235		440		PCR product(s)
9	10	11	12	13	14	Well No.
						*25:01:01-25:01:04, 25:03-
						25:05, 25:07-25:12N,
						26:01:01-26:02, 26:05,
						26:07:01-26:08, 26:10-26:12,
						26:14-26:18, 26:20, 26:23-
						26:28, 26:31-26:32, 26:35-
						26:42, 26:45-26:48, 26:50-
						26:56, 43:01
						*25:02, 26:33
						*26:03:01-26:03:02, 26:06,
						26:21
						*26:13, 26:19
	10					*26:22
		11				*26:29, 26:49
					14	*26:30
9						*26:43:01-26:43:02
9						*31:03
			?			*34:01:01-34:01:02, 34:05
9						*34:02-34:04, 34:06, 34:08
9						*34:07
						HLA-A allele
9	10	11	12	13	14	Well No.

⁴Primer mix 5: Specific PCR fragment of 70 bp in the A*02:55, 26:03:01-26:03:02, 26:06, 26:21, 26:30, 33:24, 68:05, 68:15 and 68:20 alleles. Specific PCR fragment of 100 bp in the A*66:04 and A*66:07 alleles.

Primer mix 9: Specific PCR fragment of 155 bp in the A*66:06 and in the A*03:01:19, 26:43:01-26:43:02, 31:03-31:04, 34:02-34:04 and 34:06-34:09 alleles. Specific PCR fragment of 235 bp in the A*66:14 allele.

Primer mix 11: Specific PCR fragment of 190 bp in the A*66:10 and in the A*26:29 and 26:49 alleles. Specific PCR fragment of 235 bp in the A*66:14 allele.

Primer mix 13: Specific PCR fragment of 305 bp in the A*66:13 allele. Specific PCR fragment of 440 bp in the A*66:11 allele.

^{&#}x27;w', might be weakly amplified.

[&]quot;?", nucleotide sequence of the primer matching sequence is not known.

		CE	LL LIN	IE VA)A		ON	S	HE	ΞE	T		-				
				*66 SS								•						\dashv
								•			W	ell						_
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3		E4181324	*02:01 *01:01		H	-	-	-	-	-	-	+	<u>-</u>	-	-	-	_	_
4		GU373	*30:01		-	-	-	-	-	-	-	-	Η-	-	_	-	-	_
5		KAS011	*01:01		-	_	-	-	-	-	-	+	-	-	_	_	_	_
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7	9020		*26:01		÷	-	-	-	 	÷	-	+	-	-	-	-	-	-
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10		LKT3	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-
11		PITOUT	*29:02		·	-	-	-	-	-	-	-	-	-	-	·	-	-
12	9052	DBB	*02:01		١	-	-	-	-	-	-	-	-	-	-	ŀ	-	-
13	9004	JESTHOM	*02:01		-	-	-	-	-	-	-	-	-	-	-	•	-	-
14	9071	OLGA	*31:01		ŀ	-	-	-	-	-	-	-	-	-	•	١	-	-
15	9075	DKB	*24:02		٠	-	-	-	-	-	-	-	-	-	-	١	-	-
16	9037	SWEIG007	*29:02		٠	-	-	-	-	-	-	-	-	•	-	٠	-	-
17	9282	CTM3953540	*03:01	*80:01	•	-	-	-	-	-	-	+	-	-	-	-	-	-
18		32367	*33:03	*74:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19		BM16	*02:01		•	-	-	-	-	-	-	-	<u>-</u>	-	-	-	-	-
20		SLE005	*02:01		•	-	-	-	-	-	-	-	-	-	-	-	-	-
21		AMALA	*02:17		•	-	-	-	<u>-</u>	-	-	-	-	-	-	-	-	-
22		KOSE	*02:01		•	-	-	-	-	-	-	-	-	-	-	•	-	-
23	9124		*02:01	*34:01	•	+	+	-	<u> </u>	+	•	<u> </u>	-	-	-	+	-	-
24 25		JBUSH IBW9	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-
26		WT49	*33:01 *02:05		H	-	-	-	<u>-</u>	⊢	Η-	-	 	-	-	-	_	-
27		CH1007	*24:10	*29:01	H	-	H	-	<u>-</u>	H	H	-	H	-	-	-	-	_
28		BEL5GB	*02:01	*29:02	-	-	-	-	-	-	-	-	-	-	_	-	_	_
29	9050		*29:02	20.02	Η.	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021		*30:01	*68:02	-	-	+	-	-	-	-	-	-	-	-	-	-	-
31		DUCAF	*30:02	33.02	-	-	Ė	-	-	-	-	-	-	-	-	-	-	-
32	9297		*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-
33		MT14B	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104		*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-
35		SSTO	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-
36		KT17	*02:06	*11:01	ŀ	+	-	-	-	+	-	-	_	-	•	-	-	-
37	9065	HHKB	*03:01		·	-	-	-	-	-	-	-	-	-	-	ı	-	-
38	9099		*02:17		•	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315		*01:01	*03:01	•	-	-	-	-	-	-	+	-	-	-	•	-	-
40		WHONP199	*02:07	*30:01	٠	-	-	-	-	-	-	-	-	-	-	١	-	-
41		H0301	*03:01		-	-	-	-	<u>-</u>	-	-	-	<u>-</u>	-	-	-	-	-
42		TAB089	*02:07		-	-	-	-	-	-	-	-	-	-	-	-	-	-
43		T7526	*02:06	*02:07	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057		*66:01		+	+	+	-	-	+	-	-	<u> </u>	-	-	-	-	-
45		SHJO	*23:01	*24:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46		SCHU	*03:01	*0C C :	-	-	-	-	-	-	-	-	<u>-</u>	-	-	-	-	-
47		TUBO	*02:16	*03:01	-	-	-	<u>-</u>	<u>-</u>	<u> </u>	+	-	<u> </u>	-	-	-	-	-
48	9303	TER-ND	*02:01	*11:01	•	+	-	-	-	+	-		-	-	-	-	-	-

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101.427-06 – including *Taq* **polymerase**

General "Instructions for Use" IFU-01 Rev. No. 02 can be downloaded from

Lot No.: 08L Lot-specific information www.olerup-ssp.com

CERTIFICATE OF ANALYSIS

Olerup SSP® HLA-A*66 SSP

Product number: 101.427-06 – including *Taq* polymerase

Lot number: 08L

Expiry date: 2013-August-01

Number of tests: 6 Number of wells per test: 14

Well specifications:

Well No.	Production No.	Well No.	Production No.
1	2009-642-01	9	2011-825-09
2	2008-531-02	10	2009-642-10
3	2011-825-03	11	2011-825-11
4	2009-642-04	12	2009-642-12
5	2008-531-05	13	2011-825-13
6	2008-531-06	14	2011-825-14
7	2008-531-07		
8	2008-531-08		

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 11, 12 and 13 were available. The specificities of the primers in primer solution 11 were tested by separately adding one additional 5'-primer, respectively one additional 3'-primer. In primer solutions 12 and 13 it was only possible to test the 5'-primer, the 3'-primers were not possible to test. The specificities of additional primers in primer solution 5 and 8 were tested by separately adding one additional 5'-primer, and/or one additional 3'-primer. One of the 3'-primers in primer solutions 5, 8, 9 and 11 was not possible to test.

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

Date of approval: 2011-February-18

Approved by:

Quality Control, Supervisor

HLA-A*66 Product Insert Page 14 of 16

101.427-06 – including *Taq* polymerase

General "Instructions for Use" IFU-01 Rev. No. 02 can be downloaded from

Lot No.: 08L Lot-specific information www.olerup-ssp.com

Declaration of Conformity

Product name: Olerup SSP® HLA-A*66

Product number: 101.427-06

Lot number: 08L

Intended use: HLA-A*66 high resolution histocompatibility testing

Manufacturer: Olerup SSP AB

Hasselstigen 1

SE-133 33 Saltsjöbaden, 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, Hasselstigen 1, SE-133 33 Saltsjöbaden, 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.)

Saltsjöbaden, Sweden 2011-February-18

Olle Olerup Managing Director HLA-A*66 Product Insert Page 15 of 16 101.427-06 – including *Taq* polymerase General "Instructions for Use"

IFU-01 Rev. No. 02 can be downloaded from

HLA-A*66 Product Insert Page 16 of 16 101.427-06 – including *Taq* polymerase General "Instructions for Use"

General "Instructions for Use"
IFU-01 Rev. No. 02 can be downloaded from

Lot No.: 08L Lot-specific information www.olerup-ssp.com

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E-mail: info.us@olerup.com

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

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