HLA-B*45 Product Insert Page 1 of 16

101.564-06 – including *Taq* **polymerase**

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

Lot No.: 24K Lot-specific Information www.olerup-ssp.com

Olerup SSP® HLA-B*45

Product number: 101.564-06 – including *Taq* polymerase

Lot number: 24K

Expiry date: 2012-July-01

Number of tests: 6 Number of wells per test: 12

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. 24K.

CHANGES COMPARED TO THE PREVIOUS OLERUP SSP® HLA-B*45 Lot.

The HLA-B*45 specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup* SSP® HLA-B*45 lot was made (Lot No. 86F).

Two wells has been added to the B*45 kit, wells **11** to **12**.

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

W	/ell	5'-primer	3'-primer	rationale
1	1	New	New	New primer pair for the B*45:10 allele.
12	2	New	New	New primer pair for the B*45:11 allele.

HLA-B*45 Product Insert Page 2 of 16

101.564-06 – including *Taq* polymerase

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

Lot No.: 24K Lot-specific Information www.olerup-ssp.com

PRODUCT DESCRIPTION

HLA-B*45 SSP typing

CONTENT

The primer set contains 5'- and 3'-primers for identifying the B*45:01 to B*45:11 alleles.

PLATE LAYOUT

Each HLA-B*45 test consists of 12 PCR reactions in a 16 well cut PCR plate. Wells 13 to 16 are empty.

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

The 16 well PCR plate is marked with 'HLA-B*45' in silver/gray ink.

Well No. 1 is marked with the Lot No. '24K'.

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-B*45 SSP subtypings will be influenced by two B*07, four B*08, most B*13, fourteen B*15, the B*18:48, the B*27:14, five B*35, six B*39, most B*40, the B*41, two B*42, nine B*44, two B*46, two B*47, the B*49, the B*50, the B*51, the B*52, the B*54, most B*55, most B*56, the B*57:24, the B*58:08, the B*59, the B*73:01, the B*78 and the B*82 alleles when present on the other haplotype. In addition, the C*07:68 allele will be amplified by primer mix 10, and the C*15:25 allele will be amplified by primer mix 5.

UNIQUELY IDENTIFIED ALLELES

All the HLA-B*45, i.e. **B*45:01 to B*45:11**, recognized by the HLA Nomenclature Committee in April 2010¹ will be amplified by the primers in the HLA-B*45 SSP kit.

¹HLA-B alleles listed on the IMGT/HLA web page 2010-April-01, release 3.0.0, www.ebi.ac.uk/imgt/hla.

RESOLUTION IN HOMO- AND HETEROZYGOTES

The 11 HLA-B*45 alleles can be combined in 66 homozygous and heterozygous combinations. Twenty-six of these genotypes do not give rise to unique amplification patterns.

Lot No.: 24K Lot-specific Information www.olerup-ssp.com

```
++++-+-- +---
              45:03,45:08 = 45:07,45:08
++++-+-- --+-
              45:03,45:10 = 45:07,45:10
++++-+-
              45:03,45:04 = 45:04,45:07
++++--+- ----
              45:03,45:05 = 45:05,45:07
++++---+ ----
              45:03,45:06 = 45:06,45:07
++++---
              45:03,45:11 = 45:07,45:11
++++---
              45:01,45:03 = 45:01,45:07 = 45:03,45:07 =
              45:07,45:07
+++---+
              45:01,45:05 = 45:05,45:05
+++---+ ----
              45:01,45:06 = 45:06,45:06
+++----
              45:01,45:11 = 45:11,45:11
-++--+-- +--- 45:04,45:08 = 45:08,45:08
-++--+-- --+-
             45:04,45:10 = 45:10,45:10
```

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SPECIFICITY TABLE

HLA-B*45 SSP subtyping

Specificities and sizes of the PCR products of the 12 primer mixes used for HLA-B*45 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-B*45 alleles	Other amplified HLA-B alleles ³
1	255 bp	800 bp	*45:01-45:03, 45:05-45:07, 45:09, 45:11	*44:15, 44:18, 44:20, 44:47, 50:02, 51:23, 52:15
2	145 bp	1070 bp	*45:01-45:11	*15:46, 15:53, 15:106, 15:143, 18:48, 35:19, 35:47, 35:63, 40:01:01-40:11, 40:14:01-40:16, 40:18, 40:20, 40:22N-40:40, 40:42-40:45, 40:48-40:75, 40:77-40:92, 40:94-40:95, 40:97-40:99, 41:01-41:04, 41:06-41:12, 44:09, 44:46, 44:75, 44:90, 47:02, 47:03 ^w , 50:01:01- 50:02, 50:04-50:05, 50:07- 50:09
3	160 bp	800 bp	*45:01, 45:04-45:08, 45:10-45:11	*44:15, 44:18, 56:13, 82:01- 82:03
4	160 bp	800 bp	*45:03, 45:07	
5	195 bp	800 bp	*45:02	C*15:25
6	255 bp	1070 bp	*45:04, 45:08, 45:10	*07:78, 07:84, 08:09, 13:02:01-13:04, 13:08Q-13:09, 13:14-13:16, 13:18-13:19, 13:27, 13:30-13:35, 13:37, 15:04, 15:16, 15:42, 15:67, 15:83, 15:95, 15:137, 15:155, 27:14, 35:37, 35:60, 39:06:01-39:06:02, 39:33-39:34, 39:50, 39:57, 40:06:01:01-40:06:02, 40:44, 40:53, 40:70, 40:75, 40:83, 40:86, 40:93, 40:95-40:96, 41:01, 41:05-41:07, 41:09, 41:12, 42:04, 46:11, 46:18, 49:01:01-49:10, 50:01:01-50:01:02, 50:04-50:09, 51:01:01-51:03, 51:05,

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

Lot No.: 24K		Lot-s	pecific Information	www.olerup-ssp.com				
				51:07:01-51:22, 51:24:01-51:24:03, 51:26-51:41N, 51:43-51:44N, 51:48-51:55, 51:57-51:58, 51:60-51:61, 51:63, 51:65-51:69, 51:71-51:80, 51:82-51:95, 52:01:01-52:14, 52:16-52:20, 54:01-54:05N, 54:07-54:08N, 54:10-54:22, 55:01:01-55:03, 55:05, 55:07, 55:09-55:13, 55:15-55:40, 56:01:01-56:01:04, 56:05:01-56:08, 56:13-56:17, 56:19N-56:29, 58:08, 59:01-59:05, 73:01, 78:01-78:07				
7	230 bp	1070 bp	*45:05					
8 ⁴	105 bp	1070 bp	*45:06	*44:90				
9	245 bp	1070 bp	*45:08	*08:09, 15:42, 15:83, 35:60, 39:06:01-39:06:02, 39:34, 39:57, 41:01, 41:05-41:07, 41:09, 41:12, 42:04, 46:18, 51:21, 51:36, 54:01-54:02, 54:04-54:05N, 54:07-54:08N, 54:10-54:22, 55:01:01-55:03, 55:05, 55:07, 55:10-55:13, 55:15-55:21, 55:23, 55:25-55:40, 56:23, 59:01-59:03, 59:05, 78:07				
	·	·		15:179, 42:09, 44:17, 53:22, 57:24, C*07:68				
11	245 bp	1070 bp	*45:10	*07:78, 07:84, 13:02:01-13:02:07, 13:08Q-13:09, 13:14-13:16, 13:18-13:19, 13:27, 13:30-13:35, 13:37, 27:14, 39:50, 40:06:01:01-40:06:02, 40:44, 40:53, 40:70, 40:75, 40:83, 40:86, 40:93, 40:95-40:96, 49:07, 51:10, 51:16, 51:31, 51:34, 51:82, 51:93, 52:08, 55:09, 55:22, 55:24, 73:01				
12	205 bp	1070 bp	*45:11	· · · · · · · · · · · · · · · · · · ·				

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Lot No.: 24K 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-B*45 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-B*45 SSP subtyping.

In addition, wells number 3, 4 and 5 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.

³Due to the sharing of sequence motifs between HLA-B alleles several non-HLA-B*45 alleles will be amplified by primer mixes 1 to 3, 6 and 8 to 11. In addition, the C*07:68 allele will be amplified by primer mix 10, and the C*15:25 allele will be amplified by primer mix 5.

⁴Short specific PCR fragments are less intense and not as sharp as longer specific bands. 'w', may be weakly amplified.

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Lot No.: 24K Lot-specific Information www.olerup-ssp.com

Int	erpre	tatior	n Tab	le						
HLA-B*45 SSP subtyping										
Amplification pat					1 allele	s.				
				W	ell					
	1	2	3	4	5	6	7	8		
Length of spec.	255	145	160	160	195	255	230	105		
PCR product										
Length of int.	800	1070	800	800	800	1070	1070	1070		
pos. control ¹										
5'-primer(s) ²	357	206	420	416	420	357	357	206		
	^{5'} -Tgg ^{3'}	^{5'} -gAA ^{3'}	^{5'} -TTA ^{3'}	5' -CCg 3'	5' -TTC 3'	^{5'} -Tgg ^{3'}	^{5'} -Tgg ^{3'}	^{5'} -gAA ^{3'}		
				662						
				5' -CCg 3'						
3'-primer(s) ³	572	311	538	538	572	572	545	272		
	^{5'} -gCg ^{3'}	^{5'} -ggT ^{3'}	^{5'} -gTC ^{3'}	^{5'} -gTC ^{3'}	^{5'} -gCg ^{3'}	^{5'} -gCC ^{3'}	^{5'} -AgA ^{3'}	^{5'} -TgT ^{3'}		
				774						
				^{5'} -ggT ^{3'}						
Well No.	1	2	3	4	5	6	7	8		
HLA-B allele										
*45:01	1	2	3							
*45:02	1	2			5					
*45:03	1	2		4						
*45:04		2	3			6				
*45:05	1	2	3				7			
*45:06	1	2	3					8		
*45:07	1	2	3	4						
*45:08		2	3			6				
*45:09	1	2								
*45:10		2	3			6				
*45:11	1	2	3							
*07:78, 07:84, 13:02:01-13:02:07,										
13:08Q-13:09, 13:14-13:16, 13:18-										
13:19, 13:27, 13:30-13:35, 13:37,										
27:14, 39:50, 40:93, 40:96, 49:07,						6				
51:10, 51:16, 51:31, 51:34, 51:82,										
51:93, 52:08, 55:09, 55:22, 55:24,										
73:01										
Well No.	1	2	3	4	5	6	7	8		

Lot No.: 24K **Lot-specific Information** www.olerup-ssp.com

	Interpretation Table										
	HLA-B*45 SSP subtyping										
Α	mplific			of the B*45:01 to 45:11 alleles.							
	W	ell									
9	10	11	12								
245	160	245	205	Length of spec.							
				PCR product							
1070	1070	1070	1070	Length of int.							
				pos. control ¹							
357	419	357	357	5'-primer(s) ²							
^{5'} -Tgg ^{3'}	^{5'} -gTC ^{3'}	^{5'} -Tgg ^{3'}	^{5'} -Tgg ^{3'}								
559	538	559	523	3'-primer(s) ³							
^{5'} -CgT ^{3'}	^{5'} -gTC ^{3'}	5' -CTC 3'	5' -ACA 3'								
			10								
9	10	11	12	Well No.							
				HLA-B allele							
				*45:01							
				*45:02 *45:03							
				*45:04							
				*45:05							
				*45:06							
				*45:07							
9				*45:08							
	10			*45:09							
	. •	11		*45:10							
		-	12	*45:11							
				*07:78, 07:84, 13:02:01-13:02:07,							
				13:08Q-13:09, 13:14-13:16, 13:18-							
				13:19, 13:27, 13:30-13:35, 13:37,							
		11		27:14, 39:50, 40:93, 40:96, 49:07,							
				51:10, 51:16, 51:31, 51:34, 51:82,							
				51:93, 52:08, 55:09, 55:22, 55:24,							
				73:01							
9	10	11	12	Well No.							

Lot No.: 24K Lot-specific Information

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LOUNO ZTI	-ot-spec	inc inior	illation		VV VV VV .	olerup-s	3p.com	
Length of spec.	255	145	160	160	195	255	230	105
PCR product								
Well No.	1	2	3	4	5	6	7	8
*08:09, 15:42, 15:83, 35:60,								
39:06:01-39:06:02, 39:34, 39:57,								
41:05, 42:04, 46:18, 51:21, 51:36,								
54:01-54:02, 54:04-54:05N, 54:07-						6		
54:08N, 54:10-54:22, 55:01:01-						•		
55:03, 55:05, 55:07, 55:10-55:13,								
55:15-55:21, 55:23, 55:25-55:40,								
56:23, 59:01-59:03, 59:05, 78:07								
*08:28, 08:35, 08:37, 15:51, 15:179,								
42:09, 44:17, 53:22, 57:24, <i>C*07:68</i>								
*13:03-13:04, 15:04, 15:16, 15:67,								
15:95, 15:137, 15:155, 35:37,								
39:33, 46:11, 49:01:01-49:06, 49:08	1							
49:10, 50:06, 51:01:01-51:03,								
51:05, 51:07:01-51:09:02, 51:11N-								
51:15, 51:17-51:20, 51:22, 51:24:01	1							
51:24:03, 51:26-51:30, 51:32-								
51:33, 51:35, 51:37-51:41N, 51:43-								
51:44N, 51:48-51:55, 51:57-51:58,						6		
51:60-51:61, 51:63, 51:65-51:69,								
51:71-51:80, 51:83-51:92, 51:94-								
51:95, 52:01:01-52:07, 52:09-								
52:14, 52:16-52:20, 54:03, 56:01:01	1							
56:01:04, 56:05:01-56:08, 56:14-								
56:17, 56:19N-56:22, 56:24-56:29,								
58:08, 59:04, 78:01-78:06								
*15:46, 15:53, 15:106, 15:143,								
18:48, 35:19, 35:47, 35:63,								
40:01:01-40:05, 40:07-40:11,								
40:14:01-40:16, 40:18, 40:20,								
40:22N-40:40, 40:42-40:43, 40:45,								
40:48-40:52, 40:54-40:69, 40:71-		2						
40:74, 40:77-40:82, 40:84-40:85,								
40:87-40:92, 40:94, 40:97-40:99,								
41:02:01-41:04, 41:08, 41:10-								
41:11, 44:09, 44:46, 44:75, 47:02								
*40:06:01:01-40:06:02, 40:44,								
40:53, 40:70, 40:75, 40:83, 40:86,		2				6		
40:95								
*41:01, 41:06-41:07, 41:09, 41:12		2				6		
Well No.	1	2	3	4	5	6	7	8
	· ·		-	-				_

July 2010 Rev. No.: 00 Lot No.: 24K **Lot-specific Information** www.olerup-ssp.com

: 24K			Lot-sp	ecific Information www.olerup-s
245	160	245	205	Length of spec.
				PCR product
9	10	11	12	Well No.
				*08:09, 15:42, 15:83, 35:60,
				39:06:01-39:06:02, 39:34, 39:57,
				41:05, 42:04, 46:18, 51:21, 51:36,
9				54:01-54:02, 54:04-54:05N, 54:07-
				54:08N, 54:10-54:22, 55:01:01-
				55:03, 55:05, 55:07, 55:10-55:13,
				55:15-55:21, 55:23, 55:25-55:40,
				56:23, 59:01-59:03, 59:05, 78:07
	10			*08:28, 08:35, 08:37, 15:51, 15:179,
	10			42:09, 44:17, 53:22, 57:24, <i>C*07:68</i>
				*13:03-13:04, 15:04, 15:16, 15:67,
				15:95, 15:137, 15:155, 35:37,
				39:33, 46:11, 49:01:01-49:06, 49:08-
				49:10, 50:06, 51:01:01-51:03,
				51:05, 51:07:01-51:09:02, 51:11N-
				51:15, 51:17-51:20, 51:22, 51:24:01-
				51:24:03, 51:26-51:30, 51:32-
				51:33, 51:35, 51:37-51:41N, 51:43-
				51:44N, 51:48-51:55, 51:57-51:58,
				51:60-51:61, 51:63, 51:65-51:69,
				51:71-51:80, 51:83-51:92, 51:94-
				51:95, 52:01:01-52:07, 52:09-
				52:14, 52:16-52:20, 54:03, 56:01:01-
				56:01:04, 56:05:01-56:08, 56:14-
				56:17, 56:19N-56:22, 56:24-56:29,
				58:08, 59:04, 78:01-78:06
				*15:46, 15:53, 15:106, 15:143,
				18:48, 35:19, 35:47, 35:63,
				40:01:01-40:05, 40:07-40:11,
				40:14:01-40:16, 40:18, 40:20,
				40:22N-40:40, 40:42-40:43, 40:45,
				40:48-40:52, 40:54-40:69, 40:71-
				40:74, 40:77-40:82, 40:84-40:85,
				40:87-40:92, 40:94, 40:97-40:99,
				41:02:01-41:04, 41:08, 41:10-
				41:11, 44:09, 44:46, 44:75, 47:02
				*40:06:01:01-40:06:02, 40:44,
		11		40:53, 40:70, 40:75, 40:83, 40:86,
_				40:95
9				*41:01, 41:06-41:07, 41:09, 41:12
9	10	11	12	Well No.

HLA-B*45 Product Insert 101.564-06 – including *Taq* polymerase

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

Lot No.: **24K**

Lot-specific Information

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Length of spec.	255	145	160	160	195	255	230	105
PCR product								
Well No.	1	2	3	4	5	6	7	8
*44:15, 44:18	1		3					
*44:20, 44:47, 51:23, 52:15	1							
*44:90		2						8
*47:03		w						
*50:01:01-50:01:02, 50:04-50:05,		2				6		
50:07-50:09						0		
*50:02	1	2						
*56:13			3			6		
*82:01-82:03			3					
Well No.	1	2	3	4	5	6	7	8
HLA-B allele								
C*15:25					5			
Well No.	1	2	3	4	5	6	7	8

Lot No.: 24K Lot-specific Information www.olerup-ssp.com

Length of spec.	205	245	160	245
PCR product				
Well No.	12	11	10	9
*44:15, 44:18				
*44:20, 44:47, 51:23, 52:15				
*44:90				
*47:03				
*50:01:01-50:01:02, 50:04-50:05,				
50:07-50:09				
*50:02				
*56:13				
*82:01-82:03				
Well No.	12	11	10	9
HLA-B allele				
C*15:25				
Well No.	12	11	10	9

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-B*45 SSP subtyping.

In addition, wells number 3, 4 and 5 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification. ²The nucleotide position, in the 1st, 2nd, 3rd or 4th exon, matching the specificity-determining 3'-end

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

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

Lot No.: 24K Lot-specific Information www.olerup-ssp.com

·	CELL LINE VALIDATION SHEET															
	HLA-B*45 SSP primer set															
					P -			-	_	W	ell					
					1	2	3	4	5	6	7	8	9	10	11	12
					Ľ		J	7		-		0	9	10	11	12
				.:	2	02	03	9	902	90	201	808	60	10	7	12
				ž	213	213	296	213	213	296	213	213	296	296	740	740
				Prod. No.	200621301	200621302	200959603	200621304	200621305	200959606	200621307	200621308	200959609	200959610	201074011	201074012
		10 · II I'		_	2(7	7	×	×	7	7	7	2(7	7	7
1		VC cell line		B*												
2	9001	LK707	*07:02 *52:01	*73:01	-	-	-	-	-	-	-	-	-	-	-	-
3		E4181324	*52:01	73.01	H	-	-	-	-	+	-		H	-	+	-
4		GU373	*15:10	*53:01	-	-	-	-	-	-	-	-	-	-	-	-
5		KAS011	*37:01	00.01	-	-	-	-	-	-	-	-	-	-	-	-
6	9353		*39:01	*51:01	-	-	-	-	-	+	-	-	-	-	-	-
7	9020		*18:01		-	-	-	-	-	-	-	-	-	-	-	-
8	9025		*35:01		-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*38:01		-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*54:01		-	-	-	-	-	+	-	-	+	-	-	-
11		PITOUT	*44:03		-	-	-	-	-	-	-	-	-	-	-	-
12	9052		*57:01		-	-	-	-	-	-	-	-	-	-	-	-
13		JESTHOM	*27:05		-	-	-	-	-	-	-	-	-	-	-	-
14		OLGA	*15:01	*15:20	-	-	-	-	-	-	-	-	-	-	-	-
15	9075		*40:01		-	+	-	-	-	-	-	-	-	-	-	-
16		SWEIG007	*40:02	*55.04	-	+	-	-	-	-	-	-	-	-	-	-
17		CTM3953540	*08:01	*55:01	-	-	-	-	-	+	-	-	+	-	-	-
18		32367	*14:01	*56:01	-	-	-	-	-	+	-	-	-	-	-	-
19 20		BM16 SLE005	*18:01 *40:01		i -	-	-	-	-	-	-	-	-	-	-	-
21		AMALA	*15:01		H	+	=	-	-	-	-	-	Ι <u>-</u>	-	-	-
22		KOSE	*35:03		H	_		_	-	-				-	-	-
23	9124		*40:02	*56:02		+	-	_	_	_		-		-	-	-
24		JBUSH	*38:01	30.02	-	-	-	-	_	-	-	-	-	-	-	-
25		IBW9	*14:02		-	-	-	-	-	-	-	-	-	-	-	-
26		WT49	*58:01		-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*07:05	*51:01	-	-	-	-	-	+	-	-	-	-	-	-
28		BEL5GB	*44:02	*44:03	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*44:03		-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*42:01		-	-	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*18:01		-	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*41:02		-	+	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*40:01		-	+	-	-	-	-	-	-	-	-	-	-
34	9104		*38:01		-	-	-	-	-	-	-	-	-	-	-	-
35		SSTO	*44:02		-	-	-	-	-	-	-	-	-	-	-	-
36		KT17	*15:01	*35:01	-	-	-	-	-	-	-	-	-	-	-	-
37		HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-
38	9099		*15:01	*07.05	-	-	-	-	-	-	-	-	-	-	-	-
39	9315		*08:01	*27:05	-	-	-	-	-	-	-	-	-	-	-	-
40 41		WHONP199 H0301	*13:02	*46:01	-	-	-	-	-	+	-	-	Ë	-	+	-
41		TAB089	*14:02 *46:01		H	-	-	-	-	-	-	-	-	-		-
42		T7526	*46:01		H	-	-	-	-	-	-	-	Ε.	-	-	-
43	9076		*38:01		H				-	÷			Ι-			-
45		SHJO	*42:01	*50:01	-	-	-	-	-	+	-	-	-	-	-	-
46		SCHU	*07:02	50.01	-	-	-	-	_	т -	-	-	-	-	-	-
47		TUBO	*51:01		-	-	-	-	-	+	-	-	-	-	-	-
48		TER-ND	*35:01	*44:03	-	-	-	-	-	-	-	-	-	-	-	-
.0	5505	(140	00.01	77.00												

HLA-B*45 Product Insert Page 14 of 16

101.564-06 – including *Taq* polymerase

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

Lot No.: 24K Lot-specific Information www.olerup-ssp.com

CERTIFICATE OF ANALYSIS

Olerup SSP® HLA-B*45 SSP

Product number: 101.564-06 – including *Taq* polymerase

Lot number: 24K

Expiry date: 2012-July-01

Number of tests: 6 Number of wells per test: 12

Well specifications:

Well No.	Production No.	Well No.	Production No.
1	2006-213-01	9	2009-596-09
2	2006-213-02	10	2009-596-10
3	2009-596-03	11	2010-740-11
4	2006-213-04	12	2010-740-12
5	2006-213-05		
6	2009-596-06	1	
7	2006-213-07		
8	2006-213-08		

The specificity of each primer solution of the HLA-B*45 primer set has been tested against 48 well characterized IHWC cell line DNAs.

No DNAs carrying the alleles to be amplified by primer solutions 4, 5, 7, 8, 10 and 12 were available. The specificities of the primers in primer solutions 5, 8 and 10 were tested by separately adding one additional 5'-primer, respectively one additional 3'-primer. In primer mix 4 it was only possible to test the 3'-primer, the 5'-primer was not possible to test. In primer mixes 7 and 12 it was only possible to test the 5'-primer, the 3'-primer was not possible to test.

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

Date of approval: 2010-July-12

Approved by:

Quality Control, Supervisor

HLA-B*45 Product Insert Page 15 of 16 101.564-06 – including *Taq* polymerase General "Instructions for Use"

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

Lot No.: 24K Lot-specific Information www.olerup-ssp.com

Declaration of Conformity

Product name: Olerup SSP® HLA-B*45

Product number: 101.564-06

Lot number: 24K

Intended use: HLA-B*45 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 2010-July-12

Olle Olerup

HLA-B*45 Product Insert Page 16 of 16 101.564-06 – including *Taq* polymerase General "Instructions for Use"

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

Lot No.: 24K Lot-specific Information www.olerup-ssp.com

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