●LERUPSSP®HLA-B*59 Product Insert Page 1 of 12

101.554-06 – including *Taq* **pol.**, IFU-01 **101.554-06u – without** *Taq* **pol.**, IFU-02

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

Lot No.: 8D3 Lot-specific information

Olerup SSP® HLA-B*59

Product number: 101.554-06 – including *Taq* pol.

101.554-06u – without *Taq* pol.

Lot number: 8D3

Expiry date: 2018-11-01

Number of tests: 6 Number of wells per test: 9+1

Storage - pre-aliquoted primers: dark at -20°C

- PCR Master Mix: -20°C

This Product Description is only valid for Lot No. 8D3.

Complete product documentation consists of generic Instructions for Use (IFU), lot specific Product Insert, Worksheet and Certificate.

Changes compared to the previous *OLERUP* SSP® HLA-B*59 Lot (96V).

The HLA-B*59 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

A well containing Negative Control primer pairs has been added.

The format of the Product Insert and Worksheet have been changed.

The HLA-B*59 specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup* SSP® HLA-B*59 lot (Lot No. 96V). The kit design is based on IMGT/HLA database 3.23.0.

As of lot series V, the Specificity Table is included in the lot-specific Product Insert, and the Interpretation Table is included in the Worksheet.

¹As described in section Uniquely Identified Alleles.

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101.554-06 – including *Taq* **pol.**, IFU-01 **101.554-06u – without** *Taq* **pol.**, IFU-02

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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
7	Added	-	5'-primer added for increased yield.
10	-	-	Updated negative control.

101.554-06 – including *Taq* **pol.**, IFU-01 **101.554-06u – without** *Taq* **pol.**, IFU-02

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Well **10** contains Negative Control primer pairs, that will amplify more than 95% of the Olerup SSP® HLA Class I, DRB, DQB1, DPB1 and DQA1 amplicons as well as all the amplicons generated by the control primer pairs matching the human growth hormone gene.

HLA-specific PCR product sizes range from 75 to 200 base pairs. The PCR product generated by the positive control primer pair is 430 base pairs.

Length of PCR	105	200	105	80	75	80	85
product							
5'-primer ¹	164	340	440	45	45	43	36
	5'-CAC3'	^{5'} -Agg ^{3'}	^{5'} -TTA3'	⁵ '-Tgg ³ '	⁵ '-Tgg ³ '	⁵ '-Tgg ³ '	5'-TAC3'
							36
							^{5'} -TAT ^{3'}
3'-primer ²	231	2 nd I	507	59	58	57	47
•	^{5'} -TgC ^{3'}	^{5'} -AAA ^{3'}	^{5'} -TTg ^{3'}	5'-CTC3'	^{5'} -ggC ^{3'}	5'-CTC3'	5'-ACA3'
							48
							^{5'} -gCA ^{3'}
							48
							^{5'} -gCC ^{3'}
							52
							^{5'} -TgT ^{3'}
A *	+	+	+				
B*	+	+	+				
C*	+	+	+				
DRB1				+	+		
DRB3				+	+		
DRB5				+			
DQB1					+		
DPB1						+	
DQA1							+

¹The nucleotide position for HLA class I genes and the codon for HLA class II genes, in the 2nd or 3rd exon, matching the specificity-determining 3'-end of the primer is given. Nucleotide and codonnumbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

²The nucleotide position for HLA class I genes and the codon for HLA class II genes, in the 2nd or 3rd exon or the 2nd intron, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Nucleotide and codon numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

101.554-06 – including *Taq* **pol.**, IFU-01 **101.554-06u – without** *Taq* **pol.**, IFU-02

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Lot No.: 8D3 Lot-specific information

PRODUCT DESCRIPTION

HLA-B*59 SSP typing

CONTENT

The primer set contains 5'- and 3'-primers for identifying the B*59:01 to B*59:09 alleles.

PLATE LAYOUT

Each HLA-B*59 test consists of 10 PCR reactions in a 16 well cut PCR plate. Wells 11 to 16 are empty.

1	2	3	4	5	6	7	8
9	NC	empty	empty	empty	empty	empty	empty

The 16 well PCR plate is marked with 'B59' in silver/gray ink.

Well No. 1 is marked with the Lot No. '8D3'.

Wells 1 to 9 – HLA-B*59 high resolution primers.

Well 10 – Negative Control (NC).

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

Due to the sharing of sequence motifs between HLA-B alleles non-HLA-B*59 alleles will be amplified by primer mixes 1 to 8.

For further details see Specificity Table.

UNIQUELY IDENTIFIED ALLELES

All the HLA-B*59, i.e. **B*59:01 to B*59:09**, recognized by the HLA Nomenclature Committee in January 2016^{1,2} will be amplified by the primers in the HLA-B*59 SSP kit.

The HLA-B*59 kit enables separation of the confirmed HLA-B*59 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-B*59 alleles is listed below.

The HLA-B*59 kit also enables identification of polymorphisms in exons outside of the region encoding the peptide binding domain and of null and alternatively expressed alleles.

The HLA-B*59 subtyping kit cannot distinguish the following silent mutations: the B*59:01:01:01-59:01:02 alleles.

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¹HLA-B alleles listed on the IMGT/HLA web page 2016-January-19, release 3.23.0, www.ebi.ac.uk/imgt/hla.

²Alleles that have been deleted from or renamed in the official WHO HLA Nomenclature up to and including the last IMGT/HLA database release can be retrieved from web page http://hla.alleles.org/alleles/deleted.html.

ALLELE CONFIRMATION STATUS

Allele	Status ¹
B*59:01:01:01	Confirmed
B*59:01:01:02	Confirmed
B*59:02	Unconfirmed
B*59:03	Unconfirmed
B*59:04	Confirmed
B*59:05	Unconfirmed
B*59:06	Unconfirmed
B*59:07	Unconfirmed
B*59:08	Unconfirmed
B*59:09	Unconfirmed

¹Allele status "confirmed" or "unconfirmed" as listed on the IMGT/HLA web page 2016-January-19, release 3.23.0, <u>www.ebi.ac.uk/imgt/hla</u>.

RESOLUTION IN HOMO- AND HETEROZYGOTES

Results file with resolution in HLA-B*59 homo- and heterozygotes is available upon request.

101.554-06 – including *Taq* **pol.**, IFU-01 **101.554-06u – without** *Taq* **pol.**, IFU-02

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SPECIFICITY TABLE

HLA-B*59 SSP subtyping

Specificities and sizes of the PCR products of the 9+1 primer mixes used for HLA-B*59 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA- B*59 alleles ³	Other amplified HLA-B alleles ⁴
1	430 bp	800 bp	*59:01:01:01- 59:07, 59:09	*54:12, 56:21
25	105 bp	1070 bp	*59:01:01:01- 59:01:01:02, 59:04-59:09	*07:78, 13:02:01-13:02:14, 13:02:16-13:03, 13:08-13:09, 13:14-13:16, 13:18-13:19, 13:27, 13:30-13:34, 13:37-13:38, 13:40-13:42, 13:44-13:45, 13:48-13:49N, 13:53-13:56:02N, 13:58, 13:65-13:70, 13:74-13:75, 13:81-13:82, 13:84-13:85, 14:37, 15:42, 15:303, 35:60, 44:15, 44:18, 45:01:01-45:01:02, 45:03-45:08, 45:10-45:18, 46:11, 46:18, 49:01:01-49:03, 49:06-49:14, 49:16-49:17, 49:19N-49:41, 50:01:01-50:02, 50:04-50:08, 50:10-50:11, 50:13, 50:15, 50:18-50:19, 50:31-50:32, 50:34-50:40, 50:43, 51:15, 51:157, 52:25, 54:01:01-54:03, 54:05N, 54:07-54:08N, 54:10, 54:12-54:13, 54:16-54:30, 54:32-54:34, 55:01:01-55:01:03, 55:01:05-55:01:06, 55:01:08-55:03, 55:05, 55:07, 55:09-55:12, 55:24-55:26, 55:29-55:31, 55:33-55:38, 55:40-55:41, 55:43, 55:45-55:48, 55:50, 55:52, 55:54-55:57, 55:59-55:60, 55:62-55:67, 55:69-55:78, 56:01:01:01-56:01:08, 56:07-56:08, 56:13-56:14, 56:16-56:17, 56:19N-56:20:02, 56:23-56:30, 56:33-56:49
3 ⁵	105 bp	1070 bp	*59:02	*07:84, 08:09, 08:84, 13:35, 13:59, 13:62, 15:83, 27:14, 27:81, 27:130, 35:273, 40:06:01:01-40:06:08, 40:06:10-40:06:14, 40:44, 40:53, 40:70:01-40:70:02, 40:75, 40:83, 40:93, 40:95-40:96, 40:103, 40:109-40:110, 40:127, 40:131, 40:148, 40:161-40:162, 40:165, 40:167, 40:177, 40:190, 40:230, 40:244, 40:256N, 40:268-40:270, 40:275, 40:294-40:295, 40:298, 40:306-40:307, 40:311, 40:313, 40:317-40:318, 41:01:01-41:01:04, 41:05-41:07, 41:09, 41:12, 41:14, 41:16-41:17, 41:20-41:22, 41:25-41:26, 41:28-41:29, 41:32-41:35, 41:37, 42:04, 44:20, 44:47, 44:100, 44:197, 49:18, 50:14, 50:20, 51:01:01:01-51:01:47, 51:01:49-51:03, 51:05, 51:07:01-51:12, 51:14, 51:16-51:24:05, 51:26-51:34, 51:36,

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101.554-06 – including *Taq* **pol.**, IFU-01 **101.554-06u – without** *Taq* **pol.**, IFU-02

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51:38-51:41N, 51:43-51:44N, 51:48-5 51:57-51:58, 51:60-51:61:02, 51:65-5 51:82-51:91, 51:93-51:96, 51:98N, 5 51:105, 51:107-51:130, 51:132, 51:13 51:136-51:138, 51:140-51:147, 51:14	51:80,
51:156, 51:158:01-51:171, 51:173Q- 51:193, 51:195-51:200, 52:01:01:01- 52:15-52:24, 52:26-52:38, 52:40-52:5 54:04, 54:11, 54:15, 55:17, 55:20, 55 55:28, 56:05:01-56:06, 56:15, 56:21, 58:08:01-58:08:02, 78:01:01-78:09	34, 9N- 52:13, 59,
4 150 bp 1070 bp *59:06 *54:12	
5 400 bp 1070 bp *07:65, 35:76, 40:166?, 44:90, 54:01: 54:06, 54:08N-54:23, 54:25-54:29, 54:34, 55:01:01-55:05, 55:07-55:17, 55:33, 55:35-55:46, 55:48-55:63, 55: 55:77, 56:01:01-56:13, 56:15-56:1 56:18-56:22, 56:24-56:32, 56:34-56:4 56:43, 56:45-56:50, 81:01, 81:03²-81 81:06²-81:08², 82:01-82:03, 83:01	1:31- 55:19- 65- 6, 11,
6 ⁵ 105 bp 1070 bp *59:03 *13:46, 15:137, 35:235, 35:276, 39:00 39:06:05, 39:33-39:34, 39:50, 39:57, 39:62, 39:64, 39:83, 39:90, 39:102, 30:60, 45:02, 50:09, 51:13:01-51:13:05:50:58, 56:22, 73:01-73:02	9:109, 02,
7 180 bp 1070 bp *59:04 *13:03, 13:48, 15:73, 15:303, 40:71, 44:15, 44:18, 44:140, 45:01:01-45:01 45:04-45:07, 45:11-45:18, 46:11, 49: 49:01:07, 49:02-49:03, 49:06, 49:08-49:16-49:17, 49:19N-49:41, 50:01:01 50:02, 50:04-50:08, 50:10-50:13, 50: 50:19, 50:32, 50:34-50:38, 50:40-50: 51:15, 51:62, 51:106, 52:25, 54:03, 55:01:01:01-56:01:04, 56:01:06-56:04, 56:07-56:08, 56:13-56:14, 56: 56:17, 56:20:01-56:20:02, 56:24-56:35-56:49, 58:73, 82:01-82:03 430 bp *59:08 *56:07	:02, 01:01- 49:14, - 15- 43, 4:33, 2:02,
8 430 bp 1070 bp *59:08 *56:07	
9 ⁶ 340 bp 1070 bp *59:07	
10 ⁷ Negative Control	

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*59 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 alleles listed are specified according to amplicon length.

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.



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101.554-06 – including *Taq* **pol.**, IFU-01 **101.554-06u – without** *Taq* **pol.**, IFU-02

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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 internal positive control bands are 1070 or 800 base pairs respectively, well distribution as outlined in the table. Well number 1 contains the shorter, 800 bp, internal positive control band. The well distribution of the internal controls can help in orientation of the kit on gel photo, as well as allow for kit identification. In the presence of a specific amplification the intensity of the control band often decreases.

³For several HLA Class I alleles 1st and/or 4th exon(s) and beyond, as well as intron nucleotide sequences, are not available. In these instances it is not known whether some of the primers of the SSP sets are completely matched with the target sequences or not. Assumption is made that unknown sequences in these regions are conserved within allelic groups.

⁴Due to the sharing of sequence motifs between HLA-B alleles non-HLA-B*59 alleles will be amplified by primer mixes 1 to 7.

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

⁶Primer mix 9 may have tendency of unspecific amplification.

⁷Primer mix 10 contains a negative control, which will amplify more than 95% of HLA amplicons as well as the amplicons generated by the control primer pairs matching the human growth hormone gene. HLA-specific PCR product sizes range from 75 to 200 base pairs and the PCR product generated by the HGH positive control primer pair is 430 base pairs.

'?', nucleotide seguence information not available for the primer matching sequence.

OLERUPSSP®HIA-R*50

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Lot No.: 8D3 Lot-specific information

PRIMER SPECIFICATION

Well No.	1	2	3	4	5	6	7	8	9
Length of spec.	430	105	105	150	400	105	180	430	340
PCR product						235	430		
Length of int.	800	1070	1070	1070	1070	1070	1070	1070	1070
pos. control ¹									
5'-primer(s) ²	48	357	357	206	41	357	48	48	712
	^{5'} -gCC ^{3'}	^{5'} -Tgg ^{3'}	^{5'} -Tgg ^{3'}	^{5'} -Agg ^{3'}	^{5'} -CTg ^{3'}	^{5'} -Tgg ^{3'}	^{5'} -gCC ^{3'}	^{5'} -gCC ^{3'}	^{5'} -TCg ^{3'}
							420		
							^{5'} -TTA ^{3'}		
3'-primer(s) ³	309	420	419	317	272	419	309	309	916
- 1 (-)	5' -ATC 3'	^{5'} -gCT ^{3'}	5' -CgT 3'	^{5'} -ggA ^{3'}	^{5'} -TgT ^{3'}	^{5'} -CgA ^{3'}	^{5'} -gTg ^{3'}	^{5'} -gTg ^{3'}	^{5'} -gAT ^{3'}
						553	559		
						^{5'} -CTg ^{3'}	^{5'} -CAg ^{3'}		
Well No.	1	2	3	4	5	6	7	8	9

¹The internal positive control primer pairs amplify segments of the human growth hormone gene. The internal positive control bands are 1070 or 800 base pairs respectively, well distribution as outlined in the table. Well number 1 contains the shorter, 800 bp, internal positive control band. The well distribution of the internal controls can help in orientation of the kit on gel photo, as well as allow for kit identification. In the presence of a specific amplification the intensity of the control band often decreases.

²The nucleotide position 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 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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101.554-06 – including *Taq* **pol.**, IFU-01 **101.554-06u – without** *Taq* **pol.**, IFU-02

"Instructions for Use" (IFU)

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CELL LINE VALIDATION SHEET															
		HLA-	B*59 S	SP prir	ne	r s	et ²								
					Well										
					1	2	3	4	5	6	7	8	9		
				Prod. No.:	201666701	201437402	201437403	201666704	201666705	201437406	201666707	201437408	201437409		
				Proc	2016	201	201	2016	2016	201	2016	201	201		
	IH/V	/C cell line ¹		 B*	<u> </u>		.,	.,			-	.,	.,		
1	9001		*07:02		-	-	-	-	-	-	-	-			
2		LK707	*52:01	*73:01	-	-	+	-	-	+	-	-	_		
3		E4181324	*52:01	75.01	-		+	-		T .			_		
4		GU373	*15:10	*53:01	-	_	-	-	-	-	-	-	_		
5		KAS011	*37:01	33.01		_		-		-	-	_	_		
6	9353		*39:01	*51:01	ļ -	-	+	-	_		-	-			
7	9020		*18:01	31.01	Ē	_	T	H	_	Ē	<u> </u>	-			
8	9020		*35:01		Ε.	Ē	-	-	<u> </u>		Ė	Ė			
9	9025		*38:01		H	Ē			-		Ė		-		
-		LKT3			-	-		-			-				
10			*54:01		<u> </u>	+	-	-	+	-	-	-	-		
11		PITOUT	*44:03		-	-	-	-	-	-	-	-	-		
12	9052		*57:01		-	-	-	-	-	-	-	-	-		
13		JESTHOM	*27:05	*45.00	-	-	-	-	-	-	-	-	-		
14		OLGA	*15:01	*15:20	-	-	-	-	-	-	-	-	-		
15	9075		*40:01		-	-	-	-	-	•	-	-	-		
16		SWEIG007	*40:02		-	-	-	-	-	•	-	-	-		
17		CTM3953540	*08:01	*55:01	-	+	-	-	+	-	-	-	-		
18		32367	*14:01	*56:01	-	+	-	-	+	-	+	-	-		
19		BM16	*18:01		-	-	-	Ŀ	-	-	-	-	-		
20	9059	SLE005	*40:01		-	-	-	-	-	-	-	-	-		
21	9064	AMALA	*15:01		-	-	-	-	-	-	-	-	-		
22	9056	KOSE	*35:03		-	-	-	-	-	-	-	-	-		
23	9124	IHL	*40:02	*56:02	-	-	-	-	+	-	+	-	-		
24	9035	JBUSH	*38:01		-	-	-	-	-	-	-	-	-		
25	9049	IBW9	*14:02		-	-	-	-	-	-	-	-	-		
26	9285	WT49	*58:01		-	-	-	-	-	-	-	-	-		
27	9191	CH1007	*07:05	*51:01	-	-	+	-	-	-	-	-	-		
28	9320	BEL5GB	*44:02	*44:03	-	-	-	-	-	-	-	-	-		
29	9050		*44:03		-	-	-	-	-	-	-	-	-		
30	9021		*42:01		-	-	-	-	-	-	-	-	-		
31		DUCAF	*18:01		-	-	-	-	-	-	-	-	-		
32	9297		*41:02		-	-	-	-	-	-	-	-	-		
33		MT14B	*40:01		-	-	-	-	-	-	-	-	-		
34	9104		*38:01		-	-	-	-	-	-	-	-	-		
35		SSTO	*44:02		-	-	-	-	-	-	-	-	-		
36		KT17	*15:01	*35:01	-	-	-	-	-	-	-	-	_		
37		HHKB	*07:02	00.01	-	-	-	-	-	-	-	-			
38	9099		*15:01		-	-	-	-	-	-	-	-			
39	9315		*08:01	*27:05	-	-	-	-	-	Ē	-	-	-		
40		WHONP199	*13:02	*46:01	-	+	-	-	-	Ē	-	-	-		
40		H0301	*14:02	40.01	ΙΞ	-	-	-	-	-	<u> </u>	-	ᆿ		
41					Ē	Ē	Ė	Ē	Ė	÷	Ë	Ė	_		
		TAB089	*46:01		-	-	-	Ē	-	ļ.	-	-	-		
43		T7526	*46:01		-	-	-	-	-	-	-	-	-		
44	9057		*38:01	*50.04	-	-	-	-	-	-	-	-	-		
45		SHJO	*42:01	*50:01	-	+	-	-	-	-	+	-	-		
46		SCHU	*07:02		-	-	-	-	-	-	-	-	-		
47		TUBO	*51:01	*44.00	-	-	+	-	-	-	-	-	-		
48	9303	TER-ND	*35:01	*44:03	-	-	-	-	-	-	-	-	-		



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101.554-06 – including *Taq* **pol.**, IFU-01 **101.554-06u – without** *Taq* **pol.**, IFU-02

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Lot No.: 8D3 Lot-specific information

¹The provided cell line HLA specificities are retrieved from the http://www.ihwg.org/hla web site. The specificity of an individual cell line may thus be subject to change.

²The specificity of each primer solution in the kit has been tested against 48 well characterized cell line DNAs and where applicable, additional cell line DNAs.

No DNAs carrying the alleles to be amplified by primer solutions 4, 8 and 9 were available. The specificities of the primers in primer solution 4 were tested by separately adding one additional 5'-primer, respectively one additional 3'-primer. In primer solution 9 it was only possible to test the 3'-primer, the 5'-primer was not possible to test. In primer solution 6 one 3'-primer was not possible to test. Additional primers in primer solutions 7 and 8 were tested by separately adding one 5'-primer.

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101.554-06 – including *Taq* **pol.**, IFU-01 **101.554-06u – without** *Taq* **pol.**, IFU-02

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