

101.561-24/03 – including *Taq* pol., IFU-01
101.561-24u/03u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **07V**

Lot-specific information

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Olerup SSP® HLA-B*51

Product number:	101.561-24/03 – including <i>Taq</i> pol. 101.561-24u/03u – without <i>Taq</i> pol.
Lot number:	07V
Expiry date:	2016-June-01
Number of tests:	24 tests – Product No. 101.561-24/24u 3 tests – Product No. 101.561-03/03u
Number of wells per test:	73+1
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. 07V.

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*51 LOT (05R).

The HLA-B*51 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.

Two wells have been added to HLA-C*07, wells **73 to 74**.

¹As described in section Uniquely Identified Alleles.

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The HLA-B*51 specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup SSP®* HLA-B*51 lot was made (Lot No. 05R).

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.

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

Well	5'-primer	3'-primer	rationale
25	-	Added	3'-primer added for the B*51:142 allele.
51	-	Added	3'-primer added for the B*51:136 allele.
53	-	Added	3'-primer added for the B*51:136 allele.
62	-	Added	3'-primer added for the B*51:132 allele.
63	Added	-	5'-primer added for the B*51:148 allele.
66	-	Added	3'-primer added for the B*51:132 allele.
73	New	New	New primer pair for the B*51:149N
74	New	New	Negative Control

Change in revision R01 compared to R00:

1. The C*03:19 and 03:102 alleles are amplified by primer mix 16. This has been corrected in the Specificity and Interpretation Tables.

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Well **74** contains Negative Control primer pairs, that will amplify more than 95% of the *Olerup SSP®* HLA Class I, DRB, DQB1 and DPB1 amplicons as well as amplicons generated by a control primer pair.

PCR product sizes range from 75 to 430 base pairs.
The PCR product generated by the control primer pair is 430 base pairs.

Length of PCR product	105	200	105	80	75	80
5'-primer¹	164	340	440	45	45	43
	5'-CAC ^{3'}	5'-Agg ^{3'}	5'-TTA ^{3'}	5'-Tgg ^{3'}	5'-Tgg ^{3'}	5'-Tgg ^{3'}
3'-primer²	231	2nd I	507	59	58	57
	5'-TgC ^{3'}	5'-AAA ^{3'}	5'-TTg ^{3'}	5'-CTC ^{3'}	5'-ggC ^{3'}	5'-CTC ^{3'}
A*	+	+	+			
B*	+	+	+			
C*	+	+	+			
DRB1				+	+	
DRB3				+	+	
DRB5				+		
DQB1					+	
DPB1						+

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 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.

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.

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PRODUCT DESCRIPTION

HLA-B*51 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the B*51:01 to B*51:154 alleles.

PLATE LAYOUT

Each test consists of 74 PCR reactions in a 96 well PCR plate. Wells 75 to 96 are empty

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	42	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72
73	NC	empty	empty	empty	empty	empty	empty
empty	empty	empty	empty	empty	empty	empty	empty
empty	empty	empty	empty	empty	empty	empty	empty

The 96 well cut PCR plate is marked with 'HLA-B*51' in silver/gray ink.

Well No. 1 is marked with the Lot No. '07V'.

Well 74 – 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 covered with a PCR-compatible foil.

INTERPRETATION

Due to the sharing of sequence motifs between HLA-B alleles, non-HLA-B*51 alleles will be amplified by primer mixes 1 to 3, 5 to 11, 14 to 19, 21 to 32, 34, 35, 38 to 41, 44, 46 to 50, 52, 54, 56, 57, 61 to 63 and 65. In addition, one HLA-A and a few HLA-C alleles will be amplified by primer mixes 2, 5, 7, 27, 30, 32, 34, 35, 38, 41, 50 and 56.

For further details see Specificity Table.

UNIQUELY IDENTIFIED ALLELES

All the HLA-B*51 alleles, i.e. **B*51:01 to B*51:154**, recognized by the HLA Nomenclature Committee in July 2013¹ will be amplified by the primers in the HLA-B*51 subtyping kit^{2,3}.

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The following HLA-B*51 alleles can be distinguished by the different sizes of the specific PCR product:

Alleles	Primer mix	Alleles	Primer mix
B*51:30, 51:142	25	B*51:75, 51:77	55
B*51:51, 51:765	44	B*51:83, 51:88	59
B*51:57, 51:123	46	B*51:84, 51:94	60
B*51:66, 51:67	64	B*51:86, 51:95	62
B*51:68, 51:72	51		
B*51:70, 51:71	53		
B*51:74, 51:124	54		

The HLA-B*51 kit enables separation of the confirmed HLA-B*51 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*51 alleles is listed below.

The HLA-B*51 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*51 subtyping kit cannot distinguish following silent mutations: the B*51:01:01, 51:01:03-51:01:07, 51:01:10-51:01:14, 51:01:16-51:01:20, 51:01:22-51:01:24, 51:01:26-51:01:38 and 51:01:41 alleles, the B*51:01:08 and 51:01:15 alleles, the B*51:01:21 and 51:01:25 alleles, the B*51:02:01 and 51:02:03-51:02:05 alleles, the B*51:13:01-51:13:02 alleles, the B*51:24:02-51:24:04 alleles, the B*51:56:01-51:56:02 alleles and the B*51:61:01-51:61:02 alleles.

¹HLA-B alleles listed on the IMGT/HLA web page 2013-July-25, release 3.13.1, 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>.

³The B*51:78:02 and B*78:02:01 alleles will give rise to identical amplification patterns with the HLA-B*51 subtyping kit. These alleles can be distinguished by the HLA-B low resolution kit and/or the HLA-B*78 subtyping kit.

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ALLELE CONFIRMATION STATUS

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
B*51:01:01	Confirmed	B*51:06:01	Confirmed	B*51:51	Unconfirmed	B*51:98N	Unconfirmed
B*51:01:02	Confirmed	B*51:06:02	Confirmed	B*51:52	Confirmed	B*51:99	Unconfirmed
B*51:01:03	Unconfirmed	B*51:07:01	Confirmed	B*51:53	Unconfirmed	B*51:100	Confirmed
B*51:01:04	Confirmed	B*51:07:02	Unconfirmed	B*51:54	Unconfirmed	B*51:101	Unconfirmed
B*51:01:05	Unconfirmed	B*51:08	Confirmed	B*51:55	Confirmed	B*51:102	Unconfirmed
B*51:01:06	Unconfirmed	B*51:09:01	Confirmed	B*51:56:01	Confirmed	B*51:103	Confirmed
B*51:01:07	Unconfirmed	B*51:09:02	Confirmed	B*51:56:02	Unconfirmed	B*51:104	Unconfirmed
B*51:01:08	Unconfirmed	B*51:10	Confirmed	B*51:57	Unconfirmed	B*51:105	Confirmed
B*51:01:09	Confirmed	B*51:11N	Confirmed	B*51:58	Unconfirmed	B*51:106	Unconfirmed
B*51:01:10	Confirmed	B*51:12	Unconfirmed	B*51:59	Unconfirmed	B*51:107	Unconfirmed
B*51:01:11	Unconfirmed	B*51:13:01	Confirmed	B*51:60	Unconfirmed	B*51:108	Confirmed
B*51:01:12	Unconfirmed	B*51:13:02	Confirmed	B*51:61:01	Confirmed	B*51:109	Confirmed
B*51:01:13	Unconfirmed	B*51:14	Confirmed	B*51:61:02	Unconfirmed	B*51:110N	Unconfirmed
B*51:01:14	Unconfirmed	B*51:15	Unconfirmed	B*51:62	Unconfirmed	B*51:111	Confirmed
B*51:01:15	Unconfirmed	B*51:16	Confirmed	B*51:63	Unconfirmed	B*51:112	Unconfirmed
B*51:01:16	Unconfirmed	B*51:17	Unconfirmed	B*51:64	Confirmed	B*51:113	Unconfirmed
B*51:01:17	Unconfirmed	B*51:18	Unconfirmed	B*51:65	Confirmed	B*51:114	Unconfirmed
B*51:01:18	Confirmed	B*51:19	Confirmed	B*51:66	Unconfirmed	B*51:115	Unconfirmed
B*51:01:19	Confirmed	B*51:20	Confirmed	B*51:67	Confirmed	B*51:116	Unconfirmed
B*51:01:20	Confirmed	B*51:21	Unconfirmed	B*51:68	Confirmed	B*51:117	Confirmed
B*51:01:21	Confirmed	B*51:22	Confirmed	B*51:69	Confirmed	B*51:118N	Unconfirmed
B*51:01:22	Unconfirmed	B*51:23	Confirmed	B*51:70	Confirmed	B*51:119	Confirmed
B*51:01:23	Unconfirmed	B*51:24:01	Confirmed	B*51:71	Unconfirmed	B*51:120	Confirmed
B*51:01:24	Unconfirmed	B*51:24:02	Unconfirmed	B*51:72	Unconfirmed	B*51:121	Unconfirmed
B*51:01:25	Unconfirmed	B*51:24:03	Confirmed	B*51:73	Confirmed	B*51:122	Confirmed
B*51:01:26	Unconfirmed	B*51:24:04	Confirmed	B*51:74	Confirmed	B*51:123	Confirmed
B*51:01:27	Unconfirmed	B*51:26	Confirmed	B*51:75	Confirmed	B*51:124	Confirmed
B*51:01:28	Unconfirmed	B*51:27N	Unconfirmed	B*51:76	Unconfirmed	B*51:125	Unconfirmed
B*51:01:29	Confirmed	B*51:28	Unconfirmed	B*51:77	Unconfirmed	B*51:126	Unconfirmed
B*51:01:30	Unconfirmed	B*51:29	Confirmed	B*51:78:01	Confirmed	B*51:127	Unconfirmed
B*51:01:31	Unconfirmed	B*51:30	Unconfirmed	B*51:78:02	Unconfirmed	B*51:128	Unconfirmed
B*51:01:32	Unconfirmed	B*51:31	Unconfirmed	B*51:79	Confirmed	B*51:129	Unconfirmed
B*51:01:33	Confirmed	B*51:32	Unconfirmed	B*51:80	Unconfirmed	B*51:130	Unconfirmed
B*51:01:34	Confirmed	B*51:33	Unconfirmed	B*51:81	Unconfirmed	B*51:131	Unconfirmed
B*51:01:35	Confirmed	B*51:34	Confirmed	B*51:82	Confirmed	B*51:132	Unconfirmed
B*51:01:36	Unconfirmed	B*51:35	Unconfirmed	B*51:83	Confirmed	B*51:133	Unconfirmed
B*51:01:37	Unconfirmed	B*51:36	Confirmed	B*51:84	Unconfirmed	B*51:134	Unconfirmed
B*51:01:38	Unconfirmed	B*51:37	Confirmed	B*51:85	Unconfirmed	B*51:135	Unconfirmed
B*51:01:39	Unconfirmed	B*51:38	Confirmed	B*51:86	Unconfirmed	B*51:136	Confirmed
B*51:01:40	Unconfirmed	B*51:39	Unconfirmed	B*51:87	Unconfirmed	B*51:137	Unconfirmed
B*51:01:41	Unconfirmed	B*51:40	Confirmed	B*51:88	Unconfirmed	B*51:138	Unconfirmed
B*51:01:42	Unconfirmed	B*51:41N	Unconfirmed	B*51:89	Unconfirmed	B*51:139	Unconfirmed
B*51:02:01	Confirmed	B*51:42	Unconfirmed	B*51:90	Confirmed	B*51:140	Unconfirmed
B*51:02:02	Confirmed	B*51:43	Confirmed	B*51:91	Unconfirmed	B*51:141	Unconfirmed
B*51:02:03	Unconfirmed	B*51:44N	Unconfirmed	B*51:92	Unconfirmed	B*51:142	Unconfirmed
B*51:02:04	Unconfirmed	B*51:45	Unconfirmed	B*51:93	Unconfirmed	B*51:143	Unconfirmed
B*51:02:05	Confirmed	B*51:46	Unconfirmed	B*51:94	Confirmed	B*51:144	Unconfirmed
B*51:03	Unconfirmed	B*51:48	Unconfirmed	B*51:95	Unconfirmed	B*51:145	Unconfirmed
B*51:04	Unconfirmed	B*51:49	Unconfirmed	B*51:96	Unconfirmed	B*51:146	Unconfirmed
B*51:05	Confirmed	B*51:50	Confirmed	B*51:97	Unconfirmed	B*51:147	Unconfirmed

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Allele	Status ¹
B*51:148	Unconfirmed
B*51:149N	Unconfirmed
B*51:150	Unconfirmed
B*51:151	Unconfirmed
B*51:152	Unconfirmed
B*51:153	Unconfirmed
B*51:154	Unconfirmed

¹Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2013-July-25, release 3.13.1, www.ebi.ac.uk/imgt/hla.

RESOLUTION IN HOMO- AND HETEROZYGOTES

Results file with resolution in HLA-B*51 homo- and heterozygotes is available upon request.

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SPECIFICITY TABLE

HLA-B*51 SSP subtyping

Specificities and sizes of the PCR products of the 74 primer mixes used for HLA-B*51 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-B*51 alleles ³	Other amplified HLA-B alleles ⁴
1 ⁵	105 bp	800 bp	*51:01:01-51:06:02, 51:08-51:21, 51:23-51:24:04, 51:26-51:46, 51:48-51:103, 51:105-51:111, 51:113-51:127, 51:129-51:146, 51:148-51:154	*08:32, 18:07:01-18:07:02, 18:29, 18:79, 35:01:01:01-35:08:01, 35:08:03-35:08:04, 35:08:06-35:18, 35:21-35:24:02, 35:27, 35:29:01-35:45, 35:48, 35:50-35:62, 35:64:01-35:71, 35:74-35:75, 35:77, 35:79-35:81, 35:83-35:84, 35:86-35:94, 35:96-35:134N, 35:136-35:153, 35:155-35:185, 35:187-35:197, 35:199-35:206, 35:208-35:209, 35:211-35:216N, 35:218-35:225, 35:227-35:228, 35:231-35:233, 37:21, 38:06-38:07, 44:06, 52:06:01-52:06:02, 53:01:01-53:08:02, 53:10-53:16, 53:18-53:27, 53:29, 53:31, 78:01:01-78:02:02, 78:04, 78:07
2 ⁵	95 bp	1070 bp	*51:01:01-51:01:42, 51:03-51:04, 51:06:01-51:07:02, 51:11N-51:14, 51:16-51:18, 51:21-51:22, 51:24:01-51:24:04, 51:26-51:30, 51:32-51:33, 51:35, 51:37-51:39, 51:41N, 51:43, 51:45-51:46, 51:48-51:52, 51:55-51:58, 51:60-51:72, 51:74-51:80, 51:82-51:92, 51:94-51:96, 51:98N-51:107, 51:109-51:114, 51:116-51:119, 51:121, 51:123-51:138, 51:140, 51:142, 51:145, 51:147, 51:149N-51:152, 51:154	*13:62, 14:01:01-14:37, 15:37-15:38:02, 18:15, 18:19, 18:30, 18:57, 35:21, 35:96, 35:188, 40:28, 40:51, 40:174, 49:09, 52:01:01:01-52:02:01, 52:04-52:09, 52:12-52:18, 52:20-52:27, 52:30-52:31, 53:06, 53:28, 56:05:01-56:06, 56:21, 58:08:01-58:08:02, 78:01:01-78:03, 78:05-78:07, C*01:30, C*08:51, C*12:87, C*15:39
3 ⁶	265 bp	1070 bp	*51:02:01-51:02:05, 51:05, 51:10, 51:15, 51:23, 51:34, 51:36, 51:40, 51:54, 51:93, 51:108, 51:143-51:144, 51:146	*07:78, 07:84, 08:09, 08:84, 13:02:01-13:02:12, 13:02:14-13:04, 13:08-13:09, 13:14, 13:16, 13:18-13:19, 13:27, 13:30-13:35, 13:37-13:38, 13:40-13:42, 13:45-13:49N, 13:53-13:56N, 13:58-13:59, 13:65-13:68, 13:70, 15:04, 15:16:01-15:16:03, 15:42, 15:67, 15:83, 15:95, 15:137, 15:155, 15:222, 15:254, 27:14, 27:81, 35:37, 35:60, 39:06:01-39:06:03, 39:33-39:34, 39:50, 39:57, 39:62, 39:64, 39:83, 40:06:01:01-40:06:07, 40:44, 40:53, 40:70, 40:75, 40:83, 40:86, 40:93, 40:95-40:96, 40:103, 40:109-40:110, 40:127, 40:131, 40:148, 40:159,

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4	255 bp	1070 bp	*51:03		
5	270 bp	1070 bp	*51:04, 51:46, 51:56:01-51:56:02, 51:139		*14:10, 18:22, 18:69 ^W , 35:21, 35:24:01-35:24:02, 35:81, 35:96, 35:109, 35:157, 35:188, 35:190, 35:233, 37:04:01 ^W -37:04:02 ^W , 40:28, 53:02, 53:06, 53:28, 57:14, 58:09, C*15:39
6⁶	210 bp	800 bp	*51:05 ^W , 51:09:01-51:10, 51:15, 51:19, 51:31, 51:40, 51:54 ^W , 51:73, 51:93, 51:108, 51:122		*13:02:01-13:04, 13:08-13:09, 13:14-13:15, 13:18-13:19, 13:27, 13:30, 13:32-13:35, 13:37-13:38, 13:40, 13:42, 13:44-13:45, 13:47, 13:49N, 13:53-13:56N, 13:58-13:59, 13:65-13:68, 13:70, 15:155, 15:222, 27:14, 27:81, 35:37, 35:60, 39:06:01-39:06:03, 39:33 ^W , 39:34, 39:50, 39:57, 39:62, 39:64, 39:83, 40:06:01:01-40:06:07, 40:44, 40:53, 40:70, 40:75, 40:83, 40:86, 40:93, 40:96, 40:103, 40:109-40:110, 40:127, 40:131, 40:159, 40:162, 40:165, 40:167, 40:177, 40:190, 40:230, 40:244, 44:47, 46:11, 46:18, 49:11, 52:03, 52:10:01-52:10:02, 54:01:01-54:05N, 54:07-54:08N, 54:10 ^W , 54:11-54:19, 54:21-54:30, 55:02:01-55:02:06, 55:07, 55:10, 55:12-55:13, 55:16, 55:18-55:19, 55:22-55:23, 55:26-55:27, 55:30, 55:32, 55:34-55:35, 55:37 ^W , 55:39, 55:41-55:43, 55:46-55:48, 55:50, 56:01:01-56:01:06, 56:07-56:08, 56:14-56:17, 56:19N-56:20:02, 56:22-56:24, 56:26-56:29, 56:33-56:36, 56:38N-56:39, 56:41-56:42, 59:01:01:01-59:06, 73:01-73:02, 78:04
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48⁵	95 bp	1070 bp	*51:37, 51:90, 51:92	*07:84, 13:04, 13:35, 15:04, 15:16:01-15:16:03, 15:67, 15:95, 15:155, 15:222, 15:254, 35:37, 40:44, 40:159, 41:21, 44:20, 44:47, 44:100, 45:09, 46:32, 49:04-49:05, 50:33, 52:12, 52:26, 54:14-54:15, 54:16, 55:23, 55:27, 55:46
	220 bp		*51:61:01-51:61:02	*13:31, 13:41, 15:04, 15:137, 46:32, 52:21, 55:21
49	160 bp	1070 bp	*51:01:02, 51:01:09, 51:02:02, 51:05, 51:07:02, 51:09:02, 51:15, 51:54, 51:78:02, 51:93, 51:132, 51:144, 51:148	*07:56:01-07:56:02, 07:72, 08:26, 08:56:01-08:56:02, 15:02:01-15:02:06, 15:08, 15:11:01-15:11:05, 15:13:01-15:13:02, 15:15, 15:21, 15:31, 15:44, 15:55, 15:76, 15:88-15:89, 15:112, 15:121, 15:139, 15:143-15:144, 15:148, 15:170, 15:189, 15:191, 15:194, 15:209N, 15:213-15:215, 15:223, 15:265, 18:29, 35:01:01:01-35:08:04, 35:08:06-35:09:03, 35:11:01-35:12:03, 35:14:01-35:15, 35:17-35:24:02, 35:26-35:27, 35:29:01-35:42:01, 35:43:01-35:62, 35:64:01-35:68:02, 35:70-35:72, 35:74-35:79, 35:81-35:83, 35:85-35:89, 35:91-35:123, 35:126-35:141, 35:143-35:149, 35:151-35:161, 35:163-35:183, 35:187-35:190, 35:192-35:200, 35:202-35:206, 35:208-35:216N, 35:218-35:225, 35:227-35:229, 35:231-35:233, 38:28, 53:01:01-53:05, 53:07-53:16, 53:18-53:27, 53:29-53:31, 54:01:01-54:20, 54:22-54:24, 54:25 ^w , 54:26-54:30, 55:01:01-55:05, 55:07-55:09, 55:11-55:17, 55:19-55:33, 55:35, 55:37-55:39, 55:41-55:46, 55:47 ^w ,

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					55:48-55:59, 56:01:01-56:04, 56:05:02, 56:07, 56:09-56:13, 56:15, 56:17-56:35, 56:37-56:39, 56:41-56:42, 59:01:01:01-59:06, 78:02:01, 78:04
50	155 bp	1070 bp	*51:81		*07:02:01-07:02:13, 07:02:15-07:02:19, 07:02:21-07:02:34, 07:02:36-07:02:38, 07:03-07:06, 07:08-07:11, 07:13, 07:15-07:17, 07:19-07:21, 07:23-07:67N, 07:68:03-07:76, 07:79-07:83, 07:85-07:99, 07:101-07:136, 07:138-07:161N, 07:164-07:192, 07:194-07:195, 08:01:02, 08:01:13, 08:20, 08:53:02, 08:79, 27:07:01-27:07:03, 27:11, 27:24, 27:32-27:34, 27:43, 35:31, 35:114, 37:07, 37:09, 40:02:01-40:03, 40:05, 40:08-40:09, 40:13, 40:15-40:16, 40:18-40:19, 40:24, 40:27:01-40:27:02, 40:29, 40:31-40:32, 40:35, 40:37, 40:39-40:40, 40:45, 40:50, 40:56-40:58, 40:80, 40:82, 40:85, 40:89-40:91, 40:94, 40:97-40:98, 40:104-40:105, 40:107, 40:111, 40:115, 40:119, 40:122, 40:133Q, 40:142N-40:145, 40:157, 40:164, 40:169, 40:173-40:174, 40:176, 40:180-40:181, 40:189, 40:200-40:203, 40:205-40:206, 40:209, 40:211, 40:214, 40:219-40:220, 40:224, 40:226, 40:229, 40:232, 40:246, 48:01:01-48:01:04, 48:04-48:11, 48:13, 48:15-48:16, 48:18-48:20, 48:22, 48:24, 48:27-48:31, 55:04, 55:49, 58:27, 81:01-81:06, C*02:60, C*03:05, C*03:25, C*03:27, C*03:167, C*07:294, C*08:08
51⁵	85 bp 135 bp 215 bp	800 bp	*51:68 *51:136 *51:72		
52	150 bp	1070 bp	*51:69		*18:65, 52:30
53	135 bp 165 bp 260 bp	1070 bp	*51:136 *51:71 *51:70		
54⁵	120 bp	1070 bp	*51:74		*35:46-35:47, 35:154, 35:207, 35:217, 40:07-40:08, 40:13, 40:68, 40:106, 40:162, 40:220, 40:232, 53:30
55⁵	255 bp 75 bp 200 bp	1070 bp	*51:124 *51:77 *51:75		
56	380 bp	1070 bp	*51:01:01-51:01:07, 51:01:09-51:01:14, 51:01:16-51:01:39, 51:01:41-51:12, 51:16- 51:24:04, 51:26-51:36, 51:38-51:41N, 51:43- 51:44N, 51:46, 51:48- 51:49, 51:51-51:53, 51:55-51:61:02, 51:64- 51:77, 51:79-51:84, 51:86-51:89, 51:91, 51:93-51:96,		*08:03, 08:52, 08:78, 27:102, 40:13, 40:19, 40:109, 40:117, 48:18, 49:18, 52:01:01:01-52:11, 52:13, 52:15-52:19, 52:21-52:24, 52:27-52:31, 53:19, 56:21, 57:02:01-57:03:02, 57:05, 57:07, 57:09, 57:17, 57:39, 57:42, 57:46, 57:57, 57:63, 58:08:01-58:08:02, 58:27-58:28, 59:02, A*24:146

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		51:98N-51:105, 51:107-51:134, 51:136-51:154		
57	145 bp 210 bp	1070 bp	*51:79 *51:78:01	*44:02:10, 44:34:01
58	165 bp	1070 bp	*51:80	
59⁵	120 bp 240 bp	1070 bp	*51:83 *51:88	
60^{5,8}	85 bp 190 bp	800 bp	*51:94 *51:84	
61⁵	100 bp	1070 bp	*51:85	*27:14, 27:81, 44:20, 44:47, 44:100, 50:20, 52:26
	210 bp		*51:87	
62	180 bp 250 bp	1070 bp	*51:86, 51:132 *51:95	*39:57
63⁵	70 bp 205 bp	1070 bp	*51:91	*35:02:01-35:02:05, 35:81, 35:83, 35:95, 35:129N, 35:146, 35:154, 35:162, 35:172, 35:182-35:184, 35:211, 35:220, 45:12, 53:19
64⁵	115 bp 170 bp	1070 bp	*51:67 *51:66, 51:89	
65	185 bp 215 bp	1070 bp	*51:98N *51:103, 51:116, 51:151	08:62, 18:07:01-18:07:02, 18:29, 18:79, 27:23, 35:50, 35:84, 35:162, 35:217, 35:231, 37:21, 40:07-40:08, 40:13, 40:68, 40:106, 40:162, 40:220, 40:232
66	175 bp 210 bp	1070 bp	*51:109, 51:132 *51:120	
67⁵	110 bp 230 bp	1070 bp	*51:93, 51:122 *51:100	
68	190 bp	1070 bp	*51:105	
69	225 bp	1070 bp	*51:110N	
70	160 bp	1070 bp	*51:111	
71	180 bp	1070 bp	*51:117	
72⁵	90 bp	1070 bp	*51:118N	
73	295 bp	1070 bp	*51:149N	
74⁹			Negative Control	

¹ Alleles 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*51 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, e.g. the primers in wells number 4, 5, 6, 7, 8, 9, 15, 17, 18 and 19 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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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 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*51 alleles will be amplified by primer mixes 1 to 3, 5 to 11, 14 to 19, 21 to 32, 34, 35, 38 to 41, 44, 46 to 50, 52, 54, 56, 57, 61 to 63 and 65. In addition, one HLA-A and a few HLA-C alleles will be amplified by primer mixes 2, 5, 7, 27, 30, 32, 34, 35, 38, 41, 50 and 56.

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

⁶Primer mixes 3, 6, 9 and 30 may give rise to a lower yield of HLA-specific PCR product than the other HLA-B*51 primer mixes.

⁷Primer mixes 25 and 39 may have tendencies of unspecific amplifications.

⁸Primer mixes 27, 39 and 60 have a tendency to giving rise to primer oligomer formation.

⁹Primer mix 74 contains a negative control, which will amplify more than 95% of HLA amplicons as well as the amplicons generated by control primer pairs. PCR product sizes range from 75 to 200 base pairs. The PCR product generated by the control primer pair is 430 base pairs.

'w', might be weakly amplified.

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

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Lot-specific information

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PRIMER SPECIFICATION

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec. PCR product	105	95	265	255	270	210	270	105	85	160	245	495
Length of int. pos. control ¹	800	1070	1070	1070	1070	800	1070	800	1070	1070	1070	1070
5'-primer(s) ²	206	527	357	357	355	357	355	206	408	357	357	3 rd I
	5'-gAC 3'	5'-TgA 3'	5'-Tgg 3'	5'-Tgg 3'	5'-TCA 3'	5'-Tgg 3'	5'-CCC 3'	5'-gAC 3'	5'-ggT 3'	5'-Tgg 3'	5'-Tgg 3'	5'-CTT 3'
									431			
									5'-CgA 3'			
									540			
									5'-gAC 3'			
3'-primer(s) ³	272	583	583	571	583	527	583	272	583	477	559	621
	5'-TgA 3'	5'-gTg 3'	5'-gTA 3'	5'-CCC 3'	5'-gTg 3'	5'-CCA 3'	5'-gTg 3'	5'-Tgg 3'	5'-gTg 3'	5'-gCg 3'	5'-CTC 3'	5'-ggg 3'
						527				559		
						5'-CCA 3'				5'-CgT 3'		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

Well No.	13	14	15	16	17	18	19	20	21	22	23	24
Length of spec. PCR product	200	105	100	170	105	140	145	110	130	160	210	210
			230	195		220			185			
Length of int. pos. control ¹	1070	1070	800	1070	800	800	800	1070	1070	1070	1070	1070
5'-primer(s) ²	165	357	357	404	206	141	357	141	357	141	141	141
	5'-ACC 3'	5'-Tgg 3'	5'-Tgg 3'	5'-CCC 3'	5'-gAC 3'	5'-ATT 3'	5'-Tgg 3'	5'-ATT 3'	5'-Tgg 3'	5'-ATT 3'	5'-ATT 3'	5'-ATT 3'
				420		357						
				5'-TTA 3'		5'-Tgg 3'						
				431								
				5'-CgA 3'								
3'-primer(s) ³	322	419	414	559	272	242	463	211	445	259	311	309
	5'-gTC 3'	5'-CgA 3'	5'-TgT 3'	5'-CAg 3'	5'-TgC 3'	5'-CCC 3'	5'-gCg 3'	5'-ggT 3'	5'-ggA 3'	5'-gTT 3'	5'-ggT 3'	5'-ATC 3'
			544			538			502			
			5'-ggT 3'			5'-gTC 3'			5'-CTA 3'			
			544									
			5'-ggT 3'									
Well No.	13	14	15	16	17	18	19	20	21	22	23	24

101.561-24/03 – including *Taq* pol., IFU-01
101.561-24u/03u – without *Taq* pol., IFU-02

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Well No.	25	26	27	28	29	30	31	32	33	34	35	36
Length of spec.	125	105	205	205	245	100	105	165	195	260	225	215
PCR product	175	155	270	255			225					
	205		345									
Length of int.	800	1070	800	1070	1070	800	1070	1070	1070	1070	1070	1070
pos. control ¹												
5'-primer(s) ²	357	357	49	49	357	369	357	435	141	355	355	133
	5'-Tgg 3'	5'-Tgg 3'	5'-CAG 3'	5'-CAG 3'	5'-Tgg 3'	5'-TAC 3'	5'-Tgg 3'	5'-AAA 3'	5'-ATT 3'	5'-TCA 3'	5'-TCA 3'	5'-CCg 3'
	652	756	355	357		369						
	5'-CCg 3'	5'-ACT 3'	5'-TCA 3'	5'-Tgg 3'		5'-TAC 3'						
						379						
						5'-ACC 3'						
3'-primer(s) ³	445	419	83	83	559	435	419	559	295	572	538	309
	5'-ggA 3'	5'-Cgg 3'	5'-TgA 3'	5'-TgA 3'	5'-CAG 3'	5'-TCT 3'	5'-Cgg 3'	5'-CTC 3'	5'-TCA 3'	5'-gCg 3'	5'-gTC 3'	5'-ATC 3'
	523	419	226	572	559		419					
	5'-ACA 3'	5'-CgA 3'	5'-CAC 3'	5'-gCg 3'	5'-CAG 3'		5'-CgA 3'					
	727	872	583				539					
	5'-CCA 3'	5'-TCA 3'	5'-gTg 3'				5'-TCC 3'					
	787											
	5'-TCC 3'											
Well No.	25	26	27	28	29	30	31	32	33	34	35	36

Well No.	37	38	39	40	41	42	43	44	45	46	47	48
Length of spec.	165	205	250	185	225	100	115	280	190	80	125	95
PCR product	225				315	135	215	385		170		220
Length of int.	1070	1070	1070	1070	1070	800	800	800	1070	800	800	1070
pos. control ¹												
5'-primer(s) ²	141	419	362	165	357	106	141	106	141	103	209	357
	5'-ATT 3'	5'-gTC 3'	5'-gAC 3'	5'-ACC 3'	5'-Tgg 3'	5'-CCA 3'	5'-ATT 3'	5'-CCA 3'	5'-ATT 3'	5'-CCT 3'	5'-ggA 3'	5'-Tgg 3'
	357		363		736	488		667		357		
	5'-Tgg 3'		5'-AgC 3'		5'-gCA 3'	5'-Cgg 3'		5'-AgA 3'		5'-Tgg 3'		
			383									
			5'-ggA 3'									
3'-primer(s) ³	265	583	583	309	539	163	214	343	292	141	292	412
	5'-CTA 3'	5'-gTg 3'	5'-gTg 3'	5'-ATC 3'	5'-TCC 3'	5'-ggC 3'	5'-CCA 3'	5'-T 3'	5'-gTg 3'	5'-gCA 3'	5'-gTC 3'	5'-gTC 3'
	539				916	583	314	916		487	292	412
	5'-TCT 3'				5'-gAT 3'	5'-gTg 3'	5'-gCC 3'	5'-gAT 3'		5'-Cgg 3'	5'-gTC 3'	5'-gTC 3'
												538
												5'-CCA 3'
Well No.	37	38	39	40	41	42	43	44	45	46	47	48

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Well No.	49	50	51	52	53	54	55	56	57	58	59	60
Length of spec.	160	155	85	150	135	120	75	380	145	165	120	85
PCR product			135		165	255	200		210		240	190
			215		260							
Length of int.	1070	1070	800	1070	1070	1070	1070	1070	1070	1070	1070	800
pos. control ¹												
5'-primer(s) ²	142	363	97	475	357	193	141	317	141	457	141	357
	5'-TCg ^{3'}	5'-AgC ^{3'}	5'-TCg ^{3'}	5'-CCA ^{3'}	5'-Tgg ^{3'}	5'-CCA ^{3'}	5'-ATT ^{3'}	5'-gCT ^{3'}	5'-ATT ^{3'}	5'-AgC ^{3'}	5'-ATT ^{3'}	5'-Tgg ^{3'}
			357			368	357				357	
			5'-Tgg ^{3'}			5'-gTg ^{3'}	5'-Tgg ^{3'}				5'-Tgg ^{3'}	
3'-primer(s) ³	259	477	141	583	453	272	177	412	246	583	218	403
	5'-gTT ^{3'}	5'-gCg ^{3'}	5'-gCA ^{3'}	5'-gTg ^{3'}	5'-TCT ^{3'}	5'-TgA ^{3'}	5'-AAA ^{3'}	5'-gTT ^{3'}	5'-TAA ^{3'}	5'-gTg ^{3'}	5'-gCC ^{3'}	5'-gCA ^{3'}
	259		453		481	583	514		309		555	505
	5'-gTT ^{3'}		5'-TCT ^{3'}		5'-gTg ^{3'}	5'-gTg ^{3'}	5'-CTg ^{3'}		5'-gTg ^{3'}		5'-CCg ^{3'}	5'-gCC ^{3'}
			530		578							
			5'-CCT ^{3'}		5'-TgA ^{3'}							
Well No.	49	50	51	52	53	54	55	56	57	58	59	60

Well No.	61	62	63	64	65	66	67	68	69	70	71	72
Length of spec.	100	180	70	115	185	175	110	190	225	160	180	90
PCR product	210	250	205	170	215	210	230					
Length of int.	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070
pos. control ¹												
5'-primer(s) ²	357	357	397	138	97	357	141	121	141	155	357	267
	5'-Tgg ^{3'}	5'-Tgg ^{3'}	5'-gCT ^{3'}	5'-TTg ^{3'}	5'-TCC ^{3'}	5'-Tgg ^{3'}	5'-ATT ^{3'}	5'-gCT ^{3'}	5'-ATT ^{3'}	5'-CgC ^{3'}	5'-Tgg ^{3'}	5'-Ag ^{3'}
			529	145	127		435					
			5'-AgA ^{3'}	5'-CAA ^{3'}	5'-ggT ^{3'}		5'-AAA ^{3'}					
			200									
			5'-TCg ^{3'}									
3'-primer(s) ³	418	493	559	272	272	488	331	272	327	272	494	317
	5'-gTC ^{3'}	5'-CCT ^{3'}	5'-CAg ^{3'}	5'-TgA ^{3'}	5'-TgA ^{3'}	5'-CCA ^{3'}	5'-CTC ^{3'}	5'-TgA ^{3'}	5'-TTC ^{3'}	5'-TgA ^{3'}	5'-TCg ^{3'}	5'-ggA ^{3'}
	528	496				496	506					
	5'-gCA ^{3'}	5'-gAC ^{3'}				5'-gAC ^{3'}	5'-TgA ^{3'}					
		565				526						
		5'-CAT ^{3'}				5'-CTT ^{3'}						
Well No.	61	62	63	64	65	66	67	68	69	70	71	72

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101.561-24u/03u – without *Taq* pol., IFU-02

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Well No.	73
Length of spec. PCR product	295
Length of int. pos. control ¹	1070
5'-primer(s) ²	357 5' -Tgg 3'
3'-primer(s) ³	610 5' -C.g 3'
Well No.	73

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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CELL LINE VALIDATION SHEET																				
HLA-B*51 SSP subtyping kit																				
				Well²																
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
				Prod. No.:	201073101	201204602	201073103	201073104	201073105	201204606	201073107	201204608	201073109	201073110	201073111	201073112	201073113	201073114	201073115	201073116
IHWC cell line¹		B*																		
1	9001	SA	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*52:01	*73:01	-	+	-	-	-	+	-	+	-	+	+	-	-	+	-	-
3	9011	E4181324	*52:01		-	+	-	-	-	-	-	+	-	-	-	-	-	-	-	-
4	9275	GU373	*15:10	*53:01	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*37:01		-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
6	9353	SM	*39:01	*51:01	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020	QBL	*18:01		-	-	-	-	-	-	+	+	-	-	-	-	-	-	-	-
8	9025	DEU	*35:01		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*54:01		-	-	+	-	-	+	-	-	-	+	-	-	-	-	-	-
11	9051	PITOUT	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*57:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*27:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*15:01	*15:20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*40:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*08:01	*55:01	-	-	+	-	-	-	-	-	-	+	-	-	-	-	-	-
18	9257	32367	*14:01	*56:01	-	+	+	-	-	+	+	-	-	-	-	-	-	-	-	+
19	9038	BM16	*18:01		-	-	-	-	-	-	+	+	-	-	-	-	-	-	-	-
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	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	DHIF	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*44:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*15:01	*35:01	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*08:01	*27:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*13:02	*46:01	-	-	+	-	-	+	-	-	-	+	-	-	-	-	-	-
41	9055	H0301	*14:02		-	+	-	-	-	-	+	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*42:01	*50:01	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	+
46	9013	SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*51:01		+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*35:01	*44:03	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.561-24/03 – including *Taq* pol., IFU-01
101.561-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **07V**

Lot-specific information

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CELL LINE VALIDATION SHEET																				
HLA-B*51 SSP subtyping kit																				
				Well ²																
				17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
				Prod. No.:	201073117	201073118	201073119	201073120	201073121	201073122	201073123	201073124	201325925	201073126	201204627	201073128	201204629	201204630	201073131	201073132
IHCW cell line ¹		B*																		
1	9001	SA	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*52:01	*73:01	-	-	+	-	-	-	-	-	-	+	-	-	+	-	+	-
3	9011	E4181324	*52:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
4	9275	GU373	*15:10	*53:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*37:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*39:01	*51:01	-	-	-	-	-	+	-	+	-	-	-	-	+	-	-	-
7	9020	QBL	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*35:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*54:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*57:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*27:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*15:01	*15:20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*40:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*08:01	*55:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257	32367	*14:01	*56:01	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
19	9038	BM16	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	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	DHIF	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*44:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*15:01	*35:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*08:01	*27:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*13:02	*46:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*42:01	*50:01	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
46	9013	SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*51:01		-	-	-	-	-	+	-	+	-	-	-	-	+	-	-	-
48	9303	TER-ND	*35:01	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.561-24/03 – including *Taq* pol., IFU-01
101.561-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **07V**

Lot-specific information

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CELL LINE VALIDATION SHEET																				
HLA-B*51 SSP subtyping kit																				
				Well ²																
				33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
				Prod. No.:	201073133	201073134	201073135	201073136	201204637	201073138	201204639	201325940	201073141	201073142	201204643	201073144	201073145	201204646	201073147	201073148
IHCW cell line ¹		B*																		
1	9001	SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*52:01	*73:01	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
3	9011	E4181324	*52:01		-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
4	9275	GU373	*15:10	*53:01	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
5	9009	KAS011	*37:01		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*39:01	*51:01	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
7	9020	QBL	*18:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*35:01		-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
9	9026	YAR	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*54:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*44:03		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*57:01		-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*27:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*15:01	*15:20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*40:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*08:01	*55:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257	32367	*14:01	*56:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*18:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
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	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	DHIF	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*44:02		-	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*15:01	*35:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*08:01	*27:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*13:02	*46:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*42:01	*50:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*51:01		-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
48	9303	TER-ND	*35:01	*44:03	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.561-24/03 – including *Taq* pol., IFU-01
101.561-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **07V**

Lot-specific information

www.olerup-ssp.com

CELL LINE VALIDATION SHEET																				
HLA-B*51 SSP subtyping kit																				
				Well ²																
				49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	
				Prod. No.:	201073149	201073150	201325951	201073152	201325953	201204654	201073155	201073156	201073157	201073158	201073159	201204660	201073161	201325962	201325963	201204664
IHCW cell line ¹		B*																		
1	9001	SA	*07:02	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*52:01	*73:01	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
3	9011	E4181324	*52:01		-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
4	9275	GU373	*15:10	*53:01	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*37:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*39:01	*51:01	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
7	9020	QBL	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*35:01		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*54:01		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*57:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*27:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*15:01	*15:20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*40:02		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*08:01	*55:01	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257	32367	*14:01	*56:01	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	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	DHIF	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*44:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*15:01	*35:01	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*07:02		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*08:01	*27:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*13:02	*46:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*42:01	*50:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*07:02		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*51:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*35:01	*44:03	+	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-

101.561-24/03 – including *Taq* pol., IFU-01
101.561-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **07V**

Lot-specific information

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CELL LINE VALIDATION SHEET													
HLA-B*51 SSP subtyping kit													
				Well ²									
				65	66	67	68	69	70	71	72	73	
				Prod. No.:	201204665	201325966	201204667	201204668	201204669	201204670	201204671	201325972	201325973
	IHWC cell line ¹		B*										
1	9001 SA		*07:02		-	-	-	-	-	-	-	-	-
2	9280 LK707		*52:01	*73:01	-	-	-	-	-	-	-	-	-
3	9011 E4181324		*52:01		-	-	-	-	-	-	-	-	-
4	9275 GU373		*15:10	*53:01	-	-	-	-	-	-	-	-	-
5	9009 KAS011		*37:01		-	-	-	-	-	-	-	-	-
6	9353 SM		*39:01	*51:01	-	-	-	-	-	-	-	-	-
7	9020 QBL		*18:01		-	-	-	-	-	-	-	-	-
8	9025 DEU		*35:01		-	-	-	-	-	-	-	-	-
9	9026 YAR		*38:01		-	-	-	-	-	-	-	-	-
10	9107 LKT3		*54:01		-	-	-	-	-	-	-	-	-
11	9051 PITOUT		*44:03		-	-	-	-	-	-	-	-	-
12	9052 DBB		*57:01		-	-	-	-	-	-	-	-	-
13	9004 JESTHOM		*27:05		-	-	-	-	-	-	-	-	-
14	9071 OLGA		*15:01	*15:20	-	-	-	-	-	-	-	-	-
15	9075 DKB		*40:01		-	-	-	-	-	-	-	-	-
16	9037 SWEIG007		*40:02		-	-	-	-	-	-	-	-	-
17	9282 CTM3953540		*08:01	*55:01	-	-	-	-	-	-	-	-	-
18	9257 32367		*14:01	*56:01	-	-	-	-	-	-	-	-	-
19	9038 BM16		*18:01		-	-	-	-	-	-	-	-	-
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 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 DHIF		*38:01		-	-	-	-	-	-	-	-	-
35	9302 SSTO		*44:02		-	-	-	-	-	-	-	-	-
36	9024 KT17		*15:01	*35:01	-	-	-	-	-	-	-	-	-
37	9065 HHKB		*07:02		-	-	-	-	-	-	-	-	-
38	9099 LZL		*15:01		-	-	-	-	-	-	-	-	-
39	9315 CML		*08:01	*27:05	-	-	-	-	-	-	-	-	-
40	9134 WHONP199		*13:02	*46:01	-	-	-	-	-	-	-	-	-
41	9055 H0301		*14:02		-	-	-	-	-	-	-	-	-
42	9066 TAB089		*46:01		-	-	-	-	-	-	-	-	-
43	9076 T7526		*46:01		-	-	-	-	-	-	-	-	-
44	9057 TEM		*38:01		-	-	-	-	-	-	-	-	-
45	9239 SHJO		*42:01	*50:01	-	-	-	-	-	-	-	-	-
46	9013 SCHU		*07:02		-	-	-	-	-	-	-	-	-
47	9045 TUBO		*51:01		-	-	-	-	-	-	-	-	-
48	9303 TER-ND		*35:01	*44:03	-	-	-	-	-	-	-	-	-

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.

101.561-24/03 – including *Taq* pol., IFU-01
101.561-24u/03u – without *Taq* pol., IFU-02

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Lot-specific information

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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 5, 13, 17, 20, 21, 25, 27, 32, 33, 36, 39, 42 to 46, 51 to 53, 55, 57 to 62, 64 and 66 to 73 were available.

The specificities of the primers in primer solutions 5, 17, 27, 32, 39, 42, 44, 46, 51, 53, 57, 61 and 67 were tested by separately adding one additional 5'-primer, respectively one additional 3'-primer.

In primer solutions 13, 20, 21, 25, 33, 43, 45, 55, 59, 60, 62, 66, 69, 71 and 73 it was only possible to test the 5'-primer, the 3'-primer was not possible to test.

In primer solutions 36, 52, 58, 64, 68, 70 and 72 it was only possible to test the 3'-primer, the 5'-primer was not possible to test.

In primer solutions 9, 16, 39, 41, 42, 44, 54, 63 and 65 one or two of the 5'-primers were not possible to test.

In primer solution 15, 18, 26 to 28, 42, 46, 51, 53, 57, 61 and 67 one or two of the 3'-primers were not possible to test.

Additional primers in primer solutions 18, 26, 28 to 31, 37, 41, 47, 48 and 54 were tested by separately adding one 5'-primer or one 3'-primer.

101.561-24/03 – including *Taq* pol., IFU-01
101.561-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **07V**

Lot-specific information

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