

101.523-24/03– including *Taq* pol., IFU-01
 101.523-24u/03u – without *Taq* pol., IFU-02

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

Lot No.: **27S**

Lot-specific information
Olerup SSP[®] HLA-B*40

Product number:	101.523-24/03 – including <i>Taq</i> pol. 101.523-24u/03u – without <i>Taq</i> pol.
Lot number:	27S
Expiry date:	2015-November-01
Number of tests:	24 tests – Product No. 101.523-24/24u 3 tests – Product No. 101.523-03/03u
Number of wells per test:	86
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. 27S.

**CHANGES COMPARED TO THE PREVIOUS OLERUP SSP[®]
 HLA-B*40 LOT (24R)**

The HLA-B*40 specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup SSP[®]* HLA-B*40 lot was made (Lot No. 24R).

The HLA-B*40 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

The Lot-specific information for HLA-B*40 including and without *Taq* polymerase is now described in one common Product Insert.

¹As described in section Uniquely Identified Alleles.

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

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Well	5'-primer	3'-primer	rationale
30	Added	-	5'-primer added for the B*40:01:26 allele.
40	Added	-	5'-primer added for the B*40:216N allele.
46	-	-	Modified positive control primer pair, for improved separation of HLA-specific PCR product.
56	-	Added	3'-primer added for the B*40:221 allele.

Change in revision R01 compared to R00:

1. Primer mix 70 does not amplify the following alleles: B*40:03, 40:20, 40:52, 40:59, 40:60 and 40:159 and the B*13:04, 13:10, 13:26, 15:46, 15:53, 15:106, 15:212, 18:48, 35:46-35:47, 35:63, 35:207, 35:217, 44:17, 44:43:01-44:43:02, 44:144, 45:09, 49:04-49:05, 57:45 and 57:51 and the C*07:69 alleles.

This has been corrected in the Specificity and Interpretation Tables.

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PRODUCT DESCRIPTION

HLA-B*40 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the B*40:01 to B*40:233 alleles.

PLATE LAYOUT

Each test consists of 86 PCR reactions in a 96 well cut PCR plate. Wells 87 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	43	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	74	75	76	77	78	79	80
81	82	83	84	85	86	empty	empty
empty	empty	empty	empty	empty	empty	empty	empty

The 96 well PCR plate is marked with ‘HLA-B*40’ in silver/gray ink.

Well No. 1 is marked with the Lot No. ‘27S’.

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

The interpretation of HLA-B*40 SSP subtypings will be influenced by many other HLA-B alleles when present on the other haplotype. In addition, the A*24:140 allele will be amplified by primer mix 69, the C*01:73 allele will be amplified by primer mix 21, the C*02:02:23 allele will be amplified by primer mix 18, the C*02:06 and 02:36 alleles will be amplified by primer mix 5, the C*02:23 allele will be amplified by primer mixes 5, 20, 26 and 66, the C*02:60 allele will be amplified by primer mixes 6, 13, 22, the C*02:62, 03:34 and 03:142 alleles will be amplified by primer mix 33, the C*03:05, 03:25 and 03:27 alleles will be amplified by primer mixes 4, 8 and 13, the C*03:104 and 12:25 alleles will be amplified by primer mix 23, the C*03:129 allele will be amplified by primer mix 43, the C*03:143 allele will be amplified by primer mixes 8 and 13, the C*03:162, 07:186, 07:212, 07:265 and 17:07 alleles will be amplified by primer mix 52, the C*03:167 allele will be amplified by primer mixes 4, 8 and 13, the C*04:77 allele will be amplified by primer mixes 20, 26, 34 and 66, the C*06:77 allele will be amplified by primer mix

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50, the C*07:38:01-07:38:02 alleles will be amplified by primer mixes 16, 31, 34 and 66, the C*07:46 allele will be amplified by primer mix 39, the C*07:81 and 07:168 alleles will be amplified by primer mix 11, the C*07:294 allele will be amplified by primer mixes 6, 13, 29 and 58, the C*08:08 allele by primer mixes 6 and 29, the C*15:24 allele will be amplified by primer mix 65, the C*15:39 allele will be amplified by primer mix 37, the C*15:42 allele will be amplified by primer mixes 5 and 33, the C*17:01:07 allele will be amplified by primer mixes 33 and 43, the C*17:16 will be amplified by primer mix 1 and the C*17 alleles faintly by primer mix 7.

UNIQUELY IDENTIFIED ALLELES

All the HLA-B*40 alleles, i.e. **B*40:01 to B*40:233**, recognized by the HLA Nomenclature Committee in January 2013¹ will be amplified by the primers in the HLA-B*40 subtyping kit².

The HLA-B*40 kit enables separation of the confirmed HLA-B*40 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*40 alleles is listed below.

The HLA-B*40 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 B*40:69 respectively the 40:221 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 56.

The HLA-B*40 subtyping kit cannot distinguish the silent mutations in the B*40:01:01-40:01:05, 40:01:07-40:01:10, 40:01:12-40:01:27 and 40:01:29 alleles, the B*40:02:01-40:02:03, 40:02:05-40:02:15 and 40:02:17 alleles, the B*40:06:01:01-40:06:04 and 40:06:06 alleles, the B*40:14:02-40:14:03 alleles, the B*40:87:01-40:87:02 alleles, the B*40:124:01-40:124:02 alleles or the B*40:160:01-40:160:02.

¹HLA-B alleles listed on the IMGT/HLA web page 2013-January-11, release 3.11.0, www.ebi.ac.uk/imgt/hla.

²The HLA-B*40 primer set cannot separate the B*40:209 and the B*41:19 alleles. These alleles can be distinguished by the HLA-B low resolution kit and/or the HLA-B*41 high resolution kit.

RESOLUTION IN HOMO- AND HETEROZYGOTES

A total of 296 alleles generate 171 amplification patterns that can be combined in 14706 homozygous and heterozygous combinations. 5217 of these genotypes do not give rise to unique amplification patterns. The different lengths of the specific PCR products were not considered in these calculations.

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Lot-specific information

ALLELE CONFIRMATION STATUS

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
B*40:01:01	Confirmed	B*40:10:02	Unconfirmed	B*40:68	Unconfirmed	B*40:125	Unconfirmed	B*40:184	Unconfirmed
B*40:01:02	Confirmed	B*40:11:01	Confirmed	B*40:69	Unconfirmed	B*40:126	Unconfirmed	B*40:185	Unconfirmed
B*40:01:03	Unconfirmed	B*40:11:02	Confirmed	B*40:70	Unconfirmed	B*40:127	Confirmed	B*40:186	Unconfirmed
B*40:01:04	Confirmed	B*40:12	Confirmed	B*40:71	Unconfirmed	B*40:128	Unconfirmed	B*40:187	Unconfirmed
B*40:01:05	Unconfirmed	B*40:13	Confirmed	B*40:72:01	Unconfirmed	B*40:129	Confirmed	B*40:188	Unconfirmed
B*40:01:06	Unconfirmed	B*40:14:01	Unconfirmed	B*40:72:02	Confirmed	B*40:130	Unconfirmed	B*40:189	Unconfirmed
B*40:01:07	Confirmed	B*40:14:02	Unconfirmed	B*40:73	Unconfirmed	B*40:131	Unconfirmed	B*40:190	Unconfirmed
B*40:01:08	Confirmed	B*40:14:03	Confirmed	B*40:74	Unconfirmed	B*40:132	Unconfirmed	B*40:191	Unconfirmed
B*40:01:09	Unconfirmed	B*40:15	Unconfirmed	B*40:75	Confirmed	B*40:133Q	Unconfirmed	B*40:192	Unconfirmed
B*40:01:10	Unconfirmed	B*40:16	Confirmed	B*40:76	Confirmed	B*40:134	Unconfirmed	B*40:193	Unconfirmed
B*40:01:11	Unconfirmed	B*40:18	Unconfirmed	B*40:77	Unconfirmed	B*40:135	Confirmed	B*40:194	Unconfirmed
B*40:01:12	Unconfirmed	B*40:19	Confirmed	B*40:78	Confirmed	B*40:136	Unconfirmed	B*40:195	Unconfirmed
B*40:01:13	Unconfirmed	B*40:20	Confirmed	B*40:79	Unconfirmed	B*40:137	Unconfirmed	B*40:196	Unconfirmed
B*40:01:14	Confirmed	B*40:21	Confirmed	B*40:80	Confirmed	B*40:138	Unconfirmed	B*40:197	Unconfirmed
B*40:01:15	Unconfirmed	B*40:22N	Confirmed	B*40:81	Unconfirmed	B*40:139	Unconfirmed	B*40:198	Unconfirmed
B*40:01:16	Unconfirmed	B*40:23	Confirmed	B*40:82	Unconfirmed	B*40:140	Unconfirmed	B*40:199	Unconfirmed
B*40:01:17	Confirmed	B*40:24	Unconfirmed	B*40:83	Unconfirmed	B*40:141	Unconfirmed	B*40:200	Unconfirmed
B*40:01:18	Confirmed	B*40:25	Unconfirmed	B*40:84	Unconfirmed	B*40:142N	Unconfirmed	B*40:201	Unconfirmed
B*40:01:19	Unconfirmed	B*40:26	Confirmed	B*40:85	Unconfirmed	B*40:143	Unconfirmed	B*40:202	Unconfirmed
B*40:01:20	Unconfirmed	B*40:27:01	Confirmed	B*40:86	Unconfirmed	B*40:144N	Unconfirmed	B*40:203	Unconfirmed
B*40:01:21	Confirmed	B*40:27:02	Unconfirmed	B*40:87:01	Confirmed	B*40:145	Confirmed	B*40:204	Unconfirmed
B*40:01:22	Unconfirmed	B*40:28	Unconfirmed	B*40:87:02	Unconfirmed	B*40:146	Unconfirmed	B*40:205	Unconfirmed
B*40:01:23	Unconfirmed	B*40:29	Confirmed	B*40:88	Unconfirmed	B*40:147	Unconfirmed	B*40:206	Unconfirmed
B*40:01:24	Unconfirmed	B*40:30	Confirmed	B*40:89	Unconfirmed	B*40:148	Confirmed	B*40:207	Unconfirmed
B*40:01:25	Confirmed	B*40:31	Unconfirmed	B*40:90	Confirmed	B*40:149	Unconfirmed	B*40:208	Unconfirmed
B*40:01:26	Unconfirmed	B*40:32	Confirmed	B*40:91	Unconfirmed	B*40:150	Confirmed	B*40:209	Unconfirmed
B*40:01:27	Unconfirmed	B*40:33	Unconfirmed	B*40:92	Unconfirmed	B*40:151	Unconfirmed	B*40:210	Unconfirmed
B*40:01:28	Unconfirmed	B*40:34	Unconfirmed	B*40:93	Unconfirmed	B*40:152	Unconfirmed	B*40:211	Unconfirmed
B*40:01:29	Unconfirmed	B*40:35	Unconfirmed	B*40:94	Confirmed	B*40:153	Unconfirmed	B*40:212	Unconfirmed
B*40:02:01	Confirmed	B*40:36	Unconfirmed	B*40:95	Confirmed	B*40:154	Unconfirmed	B*40:213	Unconfirmed
B*40:02:02	Unconfirmed	B*40:37	Confirmed	B*40:96	Unconfirmed	B*40:155N	Confirmed	B*40:214	Unconfirmed
B*40:02:03	Unconfirmed	B*40:38	Confirmed	B*40:97	Confirmed	B*40:156	Unconfirmed	B*40:215	Unconfirmed
B*40:02:04	Unconfirmed	B*40:39	Unconfirmed	B*40:98	Unconfirmed	B*40:157	Confirmed	B*40:216N	Unconfirmed
B*40:02:05	Unconfirmed	B*40:40	Confirmed	B*40:99	Confirmed	B*40:158	Unconfirmed	B*40:217	Unconfirmed
B*40:02:06	Confirmed	B*40:42	Confirmed	B*40:100	Unconfirmed	B*40:159	Unconfirmed	B*40:218	Unconfirmed
B*40:02:07	Confirmed	B*40:43	Unconfirmed	B*40:101	Unconfirmed	B*40:160:01	Unconfirmed	B*40:219	Unconfirmed
B*40:02:08	Unconfirmed	B*40:44	Confirmed	B*40:102	Confirmed	B*40:160:02	Unconfirmed	B*40:220	Unconfirmed
B*40:02:09	Unconfirmed	B*40:45	Unconfirmed	B*40:103	Confirmed	B*40:161	Unconfirmed	B*40:221	Unconfirmed
B*40:02:10	Unconfirmed	B*40:46	Unconfirmed	B*40:104	Unconfirmed	B*40:162	Unconfirmed	B*40:222	Unconfirmed
B*40:02:11	Unconfirmed	B*40:47	Unconfirmed	B*40:105	Confirmed	B*40:163	Unconfirmed	B*40:223	Unconfirmed
B*40:02:12	Unconfirmed	B*40:48	Confirmed	B*40:106	Unconfirmed	B*40:164	Unconfirmed	B*40:224	Unconfirmed
B*40:02:13	Unconfirmed	B*40:49	Confirmed	B*40:107	Confirmed	B*40:165	Unconfirmed	B*40:225	Unconfirmed
B*40:02:14	Unconfirmed	B*40:50	Confirmed	B*40:108	Unconfirmed	B*40:166	Unconfirmed	B*40:226	Unconfirmed
B*40:02:15	Unconfirmed	B*40:51	Unconfirmed	B*40:109	Unconfirmed	B*40:167	Unconfirmed	B*40:227	Unconfirmed
B*40:02:16	Unconfirmed	B*40:52	Confirmed	B*40:110	Confirmed	B*40:168	Confirmed	B*40:228	Unconfirmed
B*40:02:17	Unconfirmed	B*40:53	Unconfirmed	B*40:111	Confirmed	B*40:169	Unconfirmed	B*40:229	Unconfirmed
B*40:03	Confirmed	B*40:54	Confirmed	B*40:112	Unconfirmed	B*40:170	Unconfirmed	B*40:230	Unconfirmed
B*40:04	Confirmed	B*40:55	Unconfirmed	B*40:113	Unconfirmed	B*40:171	Unconfirmed	B*40:231	Unconfirmed
B*40:05	Confirmed	B*40:56	Unconfirmed	B*40:114	Confirmed	B*40:172	Confirmed	B*40:232	Unconfirmed
B*40:06:01:01	Confirmed	B*40:57	Unconfirmed	B*40:115	Confirmed	B*40:173	Unconfirmed	B*40:233	Unconfirmed
B*40:06:01:02	Confirmed	B*40:58	Unconfirmed	B*40:116	Confirmed	B*40:174	Unconfirmed		
B*40:06:02	Unconfirmed	B*40:59	Confirmed	B*40:117	Unconfirmed	B*40:175	Unconfirmed		
B*40:06:03	Unconfirmed	B*40:60	Unconfirmed	B*40:118N	Unconfirmed	B*40:176	Confirmed		
B*40:06:04	Unconfirmed	B*40:61	Unconfirmed	B*40:119	Confirmed	B*40:177	Unconfirmed		
B*40:06:05	Unconfirmed	B*40:62	Confirmed	B*40:120	Unconfirmed	B*40:178	Confirmed		
B*40:06:06	Unconfirmed	B*40:63	Confirmed	B*40:121	Unconfirmed	B*40:179	Unconfirmed		
B*40:07	Confirmed	B*40:64	Confirmed	B*40:122	Confirmed	B*40:180	Unconfirmed		
B*40:08	Confirmed	B*40:65	Unconfirmed	B*40:123	Unconfirmed	B*40:181	Unconfirmed		
B*40:09	Unconfirmed	B*40:66	Unconfirmed	B*40:124:01	Unconfirmed	B*40:182	Unconfirmed		
B*40:10:01	Confirmed	B*40:67	Unconfirmed	B*40:124:02	Unconfirmed	B*40:183	Confirmed		

¹Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2013-January-11, release 3.11.0, www.ebi.ac.uk/imgt/hla.

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SPECIFICITY TABLE

HLA-B*40 SSP subtyping

Specificities and sizes of the PCR products of the 86 primer mixes used for
 HLA-B*40 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-B*40 alleles ³	Other amplified HLA class I alleles ⁴
1	175 bp	800 bp	*40:01:01-40:01:29, 40:07, 40:10:01-40:10:02, 40:12, 40:21-40:23, 40:25, 40:33, 40:36, 40:38, 40:42-40:43, 40:46-40:49, 40:51-40:52, 40:54-40:55, 40:60-40:63, 40:65-40:67, 40:69, 40:73-40:74, 40:76, 40:79, 40:81, 40:84, 40:87:01-40:88, 40:92, 40:100-40:102, 40:106, 40:108, 40:112-40:114, 40:116-40:118N, 40:123-40:126, 40:128, 40:130, 40:132, 40:134-40:135, 40:138-40:141, 40:146-40:147, 40:149-40:156, 40:163, 40:166, 40:168, 40:170-40:172, 40:175, 40:178-40:179, 40:182-40:183, 40:185-40:188, 40:191, 40:193-40:196, 40:198-40:199, 40:204, 40:207-40:208, 40:210, 40:212-40:213, 40:215-40:218, 40:221-40:223, 40:227-40:228, 40:231	*15:116, 15:124, 44:31, 46:06, 48:03:01-48:03:02, 48:23, C*17:16
2	215 bp	800 bp	*40:01:01-40:06:06, 40:09, 40:11:01-40:11:02, 40:14:01-40:16, 40:18-40:20, 40:22N-40:27:01, 40:28-40:39, 40:42-40:48, 40:50-40:57, 40:59-40:60, 40:62-40:67, 40:69-40:74, 40:76-40:102, 40:104-40:105, 40:107-40:109,	*13:23, 13:55, 15:71, 15:175, 15:204, 15:210, 15:212, 15:225, 18:01:01:01-18:01:12, 18:01:14-18:03, 18:05-18:06, 18:08-18:15, 18:17N-18:24, 18:26-18:28, 18:30-18:32, 18:34-18:42, 18:44:01-18:78, 18:80-18:86, 27:18, 27:29, 35:63, 37:01:01-37:20, 37:22-37:25, 37:27-37:37, 41:01-41:22, 41:24-41:26, 44:15, 44:18, 44:55,

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			40:111-40:128, 40:130-40:136, 40:138-40:161, 40:163, 40:165, 40:167-40:190, 40:192-40:199, 40:201-40:209, 40:211-40:218, 40:221-40:225, 40:227-40:228, 40:230-40:231, 40:233	44:103, 44:131, 45:01-45:05, 45:07-45:14, 48:22, 48:30, 49:01:01-49:09, 49:11-49:23, 50:01:01-50:02, 50:04-50:12, 50:14-50:20, 50:31
3	130 bp	1070 bp	*40:02:01-40:06:06, 40:08-40:09, 40:11:01-40:11:02, 40:13, 40:18-40:20, 40:24, 40:26-40:29, 40:35, 40:37, 40:39, 40:40 ^w , 40:44, 40:50, 40:56-40:57, 40:64, 40:68, 40:70-40:71, 40:74-40:75, 40:78, 40:82, 40:85-40:86, 40:89-40:91, 40:94-40:99, 40:103-40:105, 40:107, 40:109, 40:111, 40:115, 40:119-40:120, 40:122, 40:127, 40:131, 40:133Q, 40:142N-40:145, 40:148-40:149, 40:157, 40:159, 40:161-40:162, 40:165, 40:167, 40:169, 40:173-40:174, 40:176, 40:180-40:181, 40:184, 40:189-40:190, 40:200-40:203, 40:205-40:206, 40:210-40:211, 40:214, 40:220, 40:224-40:226, 40:229-40:230, 40:232	*18:48, 44:103, 44:131
4⁵	95 bp	800 bp	*40:02:01-40:02:15, 40:02:17, 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, 40:78, 40:80, 40:82, 40:85, 40:89-40:91, 40:94, 40:97-40:98, 40:104, 40:107, 40:111, 40:115, 40:119, 40:122, 40:133Q, 40:142N-40:145, 40:157, 40:164, 40:169,	*07:02:01-07:02:37, 07:03-07:06, 07:08, 07:10, 07:13, 07:15-07:16, 07:19-07:76, 07:79-07:83, 07:85-07:114, 07:116-07:125, 07:127-07:136, 07:138-07:161N, 07:164-07:181N, 08:01:01-08:05, 08:07-08:08N, 08:10-08:11, 08:13-08:15, 08:17-08:27, 08:29-08:34, 08:36, 08:38-08:48, 08:50-08:59:02, 08:61-08:68, 08:70-08:83, 08:85-08:88, 08:90-08:106, 14:13, 15:45, 27:07:01-27:07:03, 27:11, 27:24, 27:32-27:34, 27:43, 35:22, 35:31, 35:87, 35:199, 37:07, 37:09, 39:14, 39:29, 41:02:01-

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30	190 bp	1070 bp	*40:01:01-40:01:27, 40:01:28 ^w , 40:01:29-40:02:17, 40:04, 40:06:01:01-40:08, 40:10:01-40:16, 40:19, 40:21-40:23, 40:25, 40:27:01-40:27:02, 40:29-40:30, 40:34-40:38, 40:40, 40:43, 40:45-40:50, 40:53-40:58, 40:61-40:62, 40:64-40:70, 40:72:01-40:88, 40:90-40:91, 40:93-40:97, 40:99-40:119, 40:121-40:123, 40:125-40:130, 40:132, 40:134-40:158, 40:160:01-40:162, 40:164-40:171, 40:173, 40:175-40:179, 40:181-40:183, 40:185-40:186, 40:188-40:198, 40:200-40:233	*07:05:01-07:06, 07:32, 07:40, 07:53, 07:69, 07:78, 07:80, 07:90, 07:97, 07:105, 07:112, 07:123, 07:137-07:138, 07:140, 07:176, 08:40, 08:79, 13:01:01-13:01:02, 13:01:04-13:02:15, 13:07N-13:09, 13:11, 13:13-13:23, 13:25, 13:27-13:33, 13:36-13:45, 13:47, 13:49N-13:50, 13:52, 13:54-13:61, 13:63N, 27:07:01-27:07:03, 27:11, 27:20, 27:24, 27:27, 27:33, 27:43, 35:31, 35:88, 39:47, 39:50, 41:19, 44:31, 48:01:01-48:01:04, 48:03:01-48:07, 48:09-48:16, 48:18-48:22, 48:24, 48:27-48:30, 51:10, 51:16, 51:31, 51:34, 51:81-51:82, 51:93, 52:08, 54:26, 55:09, 55:22, 55:24, 58:27, 81:01-81:06
31⁶	225 bp	1070 bp	*40:38, 40:48, 40:52, 40:59-40:60, 40:158, 40:222	*07:09, 07:11, 07:17, 07:78, 07:162, 15:138, 15:241, 18:35, 35:66, 46:06, 48:14, 48:23, C*07:38:01-07:38:02
32	255 bp	1070 bp	*40:01:01-40:09, 40:11:01-40:11:02, 40:14:01-40:16, 40:18, 40:20, 40:22N-40:39, 40:42-40:46, 40:48, 40:50-40:57, 40:59-40:75, 40:77-40:95, 40:97-40:108, 40:111-40:116, 40:118N-40:128, 40:130-40:136, 40:138-40:156, 40:158-40:163, 40:165-	*07:143, 08:62, 15:71, 15:175, 15:204, 15:210, 15:212, 15:225, 18:01:01:01-18:01:12, 18:01:14-18:03, 18:05-18:08, 18:10-18:15, 18:17N-18:24, 18:26-18:42, 18:44:01-18:53, 18:55-18:66, 18:68-18:86, 27:08, 27:12, 27:18, 27:26, 27:33, 27:40, 27:42, 27:44, 27:89, 35:50, 35:63, 35:84, 35:162, 35:217, 37:05, 37:11, 37:14 ^w , 37:37, 39:31, 41:01-41:04, 41:06-

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35⁸	140 bp	800 bp	*40:35, 40:71	*07:68:01-07:68:03, 07:100, 08:71, 14:05, 14:13, 15:07:01-15:07:02, 15:45, 15:55, 15:68, 15:126, 15:207, 18:14, 27:32, 35:05:01-35:05:03, 35:22, 35:51, 35:58, 35:66, 35:72, 35:89, 35:97, 35:199, 38:19, 39:03, 39:14, 39:24:01-39:24:02, 39:29, 39:37, 39:76, 41:24, 42:10, 42:17, 44:54, 44:106, 44:135, 44:158, 46:12, 48:12, 48:14, 48:29, 51:64, 53:14, 58:18
36	135 bp	1070 bp	*40:10:01-40:10:02, 40:40, 40:49, 40:58, 40:110, 40:129, 40:164, 40:210, 40:219, 40:229	*15:46, 15:53, 15:106, 35:47, 35:154, 44:02:01:01-44:03:15, 44:03:17- 44:05:04, 44:09-44:14, 44:16-44:17, 44:19N-44:39, 44:41:01-44:43:02, 44:45-44:48, 44:50-44:54, 44:56N, 44:58N-44:59:02, 44:61N-44:80, 44:82, 44:84-44:102, 44:104-44:110, 44:112-44:129, 44:132-44:133, 44:135-44:144, 44:146-44:155, 44:157-44:172, 47:01:01:01-47:08, 49:10, 49:24, 50:13, 57:45
37^{5,13}	125 bp, 270 bp	1070 bp	*40:28, 40:51, 40:113, 40:163	*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, 37:04:01 ^W -

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39⁶	330 bp	800 bp	*40:12	*15:03:01-15:03:04, 15:09-15:10:02, 15:18:01-15:18:05, 15:23, 15:29, 15:37, 15:46-15:47:02, 15:49, 15:51-15:54, 15:61-15:62, 15:64:01-15:64:02, 15:69, 15:72, 15:74, 15:80, 15:90-15:91, 15:93, 15:98-15:99, 15:103, 15:106, 15:108, 15:114-15:115, 15:119, 15:123-15:124, 15:127, 15:131-15:134, 15:143, 15:151, 15:153, 15:156, 15:158, 15:161, 15:173, 15:176, 15:186, 15:197-15:198, 15:200, 15:210, 15:212, 15:220-15:221, 15:226N, 15:229, 15:235, 15:238, 15:242-15:243, 15:252-15:253, 15:255, 15:259, 15:263, 15:266, C*07:46
40⁵	120 bp, 150 bp	1070 bp	*40:38, 40:52, 40:59-40:60, 40:216N, 40:222	*15:116, 15:124, 46:06, 48:23, 57:59
41⁶	205 bp	1070 bp	*40:08, 40:25, 40:68, 40:106, 40:166 ^W , 40:232	*07:143 ^W , 08:62, 18:01:01:01-18:01:12, 18:01:14-18:03, 18:05-18:11, 18:13-18:15, 18:17N-18:24, 18:26-18:42, 18:44:01-18:86, 27:23, 27:92, 35:50, 35:84, 35:162, 35:217, 37:08, 39:31, 42:02 ^W , 42:09 ^W , 42:17 ^W -42:18 ^W , 50:15, 51:103, 51:116, 54:02 ^W , 55:16 ^W , 56:35 ^W , 73:01 ^W -73:02 ^W
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43	185 bp	1070 bp	*40:30, 40:34, 40:59, 40:137, 40:160:01-40:160:02	*44:169, 48:17, 57:59, C*03:129, C*17:01:07
44^{5,14}	110 bp, 205 bp	800 bp	*40:54, 40:78	
45^{6,8,15}	175 bp, 235 bp	1070 bp	*40:55-40:56	
46	545 bp	1070 bp	*40:11:01, 40:20, 40:26, 40:74, 40:149, 40:184	*15:71, 15:175, 18:01:01:01-18:01:05, 18:01:07-18:01:12, 18:01:14-18:01:18, 18:03, 18:05-18:07:02, 18:09-18:13, 18:15, 18:17N, 18:19-18:21, 18:23N-18:24, 18:26, 18:28-18:42, 18:44:01,

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47	145 bp	800 bp	*40:57	
48 ^{6,9,16}	215 bp, 245 bp	1070 bp	*40:61, 40:73	*18:06, 46:14
49 ⁵	120 bp	1070 bp	*40:36, 40:48	*48:07, 54:22
50	250 bp	1070 bp	*40:37, 40:76	*18:49, 18:79, 27:42, 27:89, 37:05, C*06:77
51	205 bp	1070 bp	*40:62	
52 ⁵	90 bp	1070 bp	*40:63, 40:92	*15:116, 57:59, C*03:162, C*07:186, C*07:212, C*07:265, C*17:07
53	165 bp	1070 bp	*40:65	
54 ^{5,6}	125 bp	800 bp	*40:66, 40:103, 40:166	*07:133, 44:90, 45:06
55 ^{5,8}	125 bp	800 bp	*40:67	
56 ^{5,8,17}	100 bp, 165 bp, 270 bp	1070 bp	*40:69, 40:97, 40:221	
57	385 bp	1070 bp	*40:79, 40:190	*07:23, 41:14
58	190 bp	1070 bp	*40:31, 40:80	*07:147, 07:151, 48:01:01-48:01:04, 48:04, 48:06-48:07, 48:09, 48:11, 48:14-48:16, 48:18-48:20, 48:22, 48:24, 48:27-48:30, 81:01-81:06, C*07:294
59 ^{5,18}	85 bp, 190 bp	1070 bp	*40:81, 40:127	*44:143
60 ¹⁹	135 bp, 250 bp	800 bp	*40:82, 40:88	*27:80
61 ⁵	80 bp	1070 bp	*40:02:04, 40:10:02, 40:83	*07:133, 15:46, 15:106, 15:143, 35:19, 35:47, 35:154, 37:06, 44:84, 51:112, 57:45
62 ²⁰	195 bp, 245 bp	800 bp	*40:84, 40:119	
63 ²¹	180 bp, 240 bp	1070 bp	*40:85, 40:133Q	
64 ⁵	105 bp	1070 bp	*40:86	*13:46, 15:137, 39:06:01-39:06:02, 39:33-39:34, 39:50, 39:57, 39:62, 39:64, 45:02, 50:09, 51:13:01- 51:13:02, 51:92, 52:14, 55:13, 55:58, 56:22, 59:03, 73:01-73:02
65 ^{8,22}	130 bp,	1070 bp	*40:02:01-40:02:17, 40:04-	*07:05:01-07:06, 07:32, 07:34, 07:40,

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68	225 bp	1070 bp	*40:90
69^{5,8}	75 bp	800 bp	*40:91, 40:94
70⁸	505 bp	1070 bp	*40:09, 40:18, 40:24, 40:31-40:33, 40:42, 40:44, 40:98, 40:120
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71⁵	120 bp	800 bp	*40:75
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72⁶	245 bp	1070 bp	*40:06:01:01-40:06:06, 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, 40:161-40:162,
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		40:165, 40:167, 40:177, 40:190, 40:230		51:34, 51:82, 51:93, 52:08, 54:26, 55:09, 55:22, 55:24, 73:01-73:02	
73	245 bp	1070 bp	*40:176		
74⁶	210 bp	1070 bp	*40:95, 40:148, 40:161 ^W *07:78 ^W , 07:84 ^W , 13:16, 13:48, 13:62, 15:16:01-15:16:03, 15:42, 15:67, 15:95, 15:254, 49:01:01, 49:01:03-49:10, 49:12-49:25, 50:01:01-50:01:02, 50:01:03 ^W , 50:02, 50:04-50:11, 50:13-50:16, 50:18-50:20, 50:31, 51:01:01-51:03, 51:07:01-51:07:02, 51:11N-51:14, 51:16-51:18, 51:21-51:24:04, 51:26-51:28, 51:29 ^W , 51:30, 51:32-51:35, 51:37-51:39, 51:41N, 51:43, 51:48-51:53, 51:55 ^W , 51:57-51:58, 51:60, 51:63, 51:65-51:71, 51:74-51:80, 51:82 ^W , 51:83-51:86, 51:88-51:90, 51:92, 51:94-51:96, 51:98N-51:107, 51:109-51:114, 51:116-51:121, 51:123-51:134, 51:136-51:138, 51:140, 51:142-51:147, 51:149N-51:150, 52:01:01:01-52:02, 52:04-52:09, 52:11-52:18, 52:20, 52:22-52:23, 52:24 ^W , 52:25-52:31, 54:20 ^W , 55:01:01-55:01:06, 55:01:08-55:01:10, 55:03, 55:05, 55:09 ^W , 55:11, 55:15, 55:17, 55:24-55:25, 55:28-55:29, 55:31, 55:33, 55:36, 55:38, 55:40, 55:44-55:45, 55:52 ^W , 55:53-55:55N, 55:58, 56:05:01-56:06, 56:21, 56:25, 56:37, 58:08:01-58:08:02, 78:01:01-78:03, 78:05-78:07		
75	270 bp	1070 bp	*40:155N		
76	260 bp	1070 bp	*40:47, 40:96, 40:157, 40:168, 40:201 *13:23, 13:55, 18:09, 27:01, 37:10, 44:15, 44:55, 44:103, 49:02		
77	185 bp	800 bp	*40:102, 40:142N		
78^{5,24}	115 bp, 250 bp	1070 bp	*40:111, 40:135		
79²⁵	185 bp, 220 bp	1070 bp	*40:116, 40:145		
80⁵	115 bp	1070 bp	*40:122, 40:151		
81²⁶	225 bp, 335 bp	1070 bp	*40:141, 40:144N		
82^{5,27}	75 bp,	800 bp	*40:115, 40:150 *07:120, 15:214, 18:81, 57:29		

101.523-24/03– including *Taq* pol., IFU-01
101.523-24u/03u – without *Taq* pol., IFU-02

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Lot-specific information

	175 bp			
83	150 bp	1070 bp	*40:179	
84	200 bp	1070 bp	*40:132, 40:178	*07:140, 44:10, 44:14, 44:31, 44:62, 44:77, 44:82, 45:14, 51:23, 51:108, 52:15, 57:07, 82:01-82:03
85	260 bp	1070 bp	*40:213	*15:227, 27:69, 37:23
86	245 bp	800 bp	*40:06:01:01-40:06:06, 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, 40:161-40:162, 40:165, 40:167, 40:177, 40:190, 40:230	*07:78, 07:84, 13:02:01-13:02:15, 13:08Q-13:09, 13:14-13:16, 13:18-13:19, 13:27, 13:30-13:35, 13:37-13:38, 13:40-13:42, 13:44-13:45, 13:47, 13:49N, 13:54-13:56N, 13:58-13:59, 27:14, 27:81, 39:50, 45:10, 49:07, 50:31, 51:10, 51:16, 51:31, 51:34, 51:82, 51:93, 52:08, 54:26, 55:09, 55:22, 55:24, 73:01-73:02

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*40 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 respective lengths of the HLA-specific PCR product(s) are given for the alleles amplified by these primer mixes.

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

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

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

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

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

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-B*40 subtyping.

In addition, wells number 2, 4, 5, 7, 14 to 18, 21 to 23, 27, 29, 35, 39, 44, 47, 54, 55, 60, 62, 69, 71, 77, 82 and 86 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification. In the presence of a specific amplification the intensity of the control band often decreases.

³For several HLA-B 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. We assume 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*40 alleles will be amplified by primer mixes 1 to 23, 25, 26, 28 to 43, 46, 48 to 50, 52, 54, 57 to 61, 64 to 67, 69 to 72, 74, 76, 82 and 84 to 86. In addition, the A*24:140 allele will be amplified by primer mix 69, the C*01:73 allele will be amplified by primer mix 21, the C*02:02:23 allele will be amplified by primer mix 18, the C*02:06 and 02:36 alleles will be amplified by primer mix 5, the C*02:23 allele will be amplified by primer mixes 5, 20, 26 and 66, the C*02:60 allele will be amplified by primer mixes 6, 13, 22, the C*02:62, 03:34 and 03:142 alleles will be amplified by primer mix 33, the C*03:05, 03:25 and 03:27 alleles will be amplified by primer mixes 4, 8 and 13, the C*03:104 and 12:25 alleles will be amplified by primer mix 23, the C*03:129 allele will be amplified by primer mix 43, the C*03:143 allele will be amplified by primer mixes 8 and 13, the C*03:162, 07:186, 07:212, 07:265

101.523-24/03– including *Taq* pol., IFU-01
101.523-24u/03u – without *Taq* pol., IFU-02

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and 17:07 alleles will be amplified by primer mix 52, the C*03:167 allele will be amplified by primer mixes 4, 8 and 13, the C*04:77 allele will be amplified by primer mixes 20, 26, 34 and 66, the C*06:77 allele will be amplified by primer mix 50, the C*07:38:01-07:38:02 alleles will be amplified by primer mixes 16, 31, 34 and 66, the C*07:46 allele will be amplified by primer mix 39, the C*07:81 and 07:168 alleles will be amplified by primer mix 11, the C*07:294 allele will be amplified by primer mixes 6, 13, 29 and 58, the C*08:08 allele by primer mixes 6 and 29, the C*15:24 allele will be amplified by primer mix 65, the C*15:39 allele will be amplified by primer mix 37, the C*15:42 allele will be amplified by primer mixes 5 and 33, the C*17:01:07 allele will be amplified by primer mixes 33 and 43, the C*17:16 will be amplified by primer mix 1 and the C*17 alleles faintly by primer mix 7.

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

⁶Primer mixes 21, 23, 31, 34, 38, 39, 41, 45, 48, 54, 67, 72 and 74 may have tendencies of unspecific amplifications.

⁷Primer mix 7 may faintly amplify the C*17 alleles.

⁸Primer mixes 14, 27, 35, 45, 55, 56, 65, 69 and 70 have a tendency to giving rise to primer oligomer formation.

⁹Primer mix 48 may give rise to a lower yield of HLA-specific PCR product than the other B*40 primer mixes.

¹⁰Primer mix 16: Specific PCR fragment of 75 bp in the B*40:15 allele. Specific PCR fragment of 160 bp in the B*40:14:01, 40:72:01, 40:77, 40:121 and 40:136 and in the B*07:02:13, 07:02:35, 07:68:02, 18:35, 35:66, 42:05:01-42:05:02 and 48:12 and in the C*07:38:01-07:38:02 alleles.

¹¹Primer mix 20: Specific PCR fragment of 135 bp in the B*40:14:01-40:14:03, 40:23, 40:114, 40:121, 40:136, 40:158 and 40:231 and the B*07:07, 07:12, 07:14, 07:18:01-07:18:02, 07:77, 07:78, 07:84, 07:137, 07:162-07:163, 15:138, 15:230, 15:241, 18:35, 41:08 and 44:150 and the C*02:23 and C*04:77 alleles. Specific PCR fragment of 285 bp in the B*40:31 and 40:80 and the B*07:106, 07:147, 07:151, 48:01:01-48:01:03, 48:06, 48:07, 48:09, 48:11, 48:14-48:16, 48:18-48:20, 48:22, 48:27-48:28 and 81:01-81:06 alleles. Specific PCR fragments of 135 and 285 bp in the B*40:15-40:16, 40:32, 40:45, 40:98 and B*07:02:01-07:06, 07:08-07:11, 07:13, 07:15-07:17, 07:20-07:32, 07:34-07:39, 07:41-07:52, 07:54-07:59, 07:61-07:76, 07:79-07:83, 07:85-07:99, 07:101-07:105, 07:107-07:121, 07:123-07:136, 07:138, 07:140-07:146, 07:148-07:150, 07:152-07:161N, 07:164, 07:166-07:181N, 08:79, 35:66, 37:07, 42:05:01-42:05:02, 48:05, 48:08, 48:10 and 48:12 alleles. (Both specific fragments may not always be obtained.)

¹²Primer mix 34: Specific PCR fragment of 190 bp in the B*40:118N allele. Specific PCR fragment of 235 bp in the B*40:42, 40:60, 40:124:01-40:124:02 and 40:172 and the B*07:14, 07:17, 07:28, 07:96:01-07:96:02, 07:115, 15:230, 27:36, 44:150, 48:17 and 48:26 and in the C*04:77, C*07:38:01-07:38:02 alleles.

¹³Primer mix 37: Specific PCR fragment of 125 bp in the B*40:51, 40:113 and 40:163 alleles. Specific PCR fragment of 270 bp in the B*40:28 and in the B*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, 37:04:01^w-37:04:02^w, 51:04, 51:46, 51:56:01-51:56:02, 51:139, 53:02, 53:06, 53:28, 57:14 and 58:09 and the C*15:39 alleles.

¹⁴Primer mix 44: Specific PCR fragment of 110 bp in the B*40:78 allele. Specific PCR fragment of 205 bp in the B*40:54 allele.

¹⁵Primer mix 45: Specific PCR fragment of 175 bp in the B*40:56 allele. Specific PCR fragment of 235 bp in the B*40:55 allele.

¹⁶Primer mix 48: Specific PCR fragment of 215 bp in the B*40:61 allele. Specific PCR fragment of 245 bp in the B*40:73 and B*18:06 and 46:14 alleles.

¹⁷Primer mix 56: Specific PCR fragment of 100 bp in the B*40:69 allele. Specific PCR fragment of 165 bp in the B*40:97 allele. Specific PCR fragment of 270 bp in the B*40:221 allele

¹⁸Primer mix 59: Specific PCR fragment of 85 bp in the B*40:127 and the B*44:143 alleles. Specific PCR fragment of 190 bp in the B*40:81 allele.

¹⁹Primer mix 60: Specific PCR fragment of 135 bp in the B*40:82 allele. Specific PCR fragment of 250 bp in the B*40:88 and the B*27:80 alleles.

²⁰Primer mix 62: Specific PCR fragment of 195 bp in the B*40:84 allele. Specific PCR fragment of 245 bp in the B*40:119 allele.

²¹Primer mix 63: Specific PCR fragment of 180 bp in the B*40:85 allele. Specific PCR fragment of 240 bp in the B*40:133Q allele.

²²Primer mix 65: Specific PCR fragment of 130 bp in the B*40:02:01-40:02:09, 40:02:11-40:02:17, 40:04-40:06:06, 40:08, 40:11:01-40:11:02, 40:13-40:14, 40:19, 40:26-40:29, 40:35, 40:37, 40:39-40:40, 40:50, 40:53, 40:56-40:58, 40:64, 40:68, 40:70-40:71, 40:75, 40:78, 40:82-40:83, 40:86, 40:90, 40:93-40:97, 40:99, 40:103-40:105, 40:107, 40:109-40:111, 40:115, 40:119, 40:121-40:122, 40:127, 40:129, 40:133Q, 40:136, 40:142N-

101.523-24/03– including *Taq* pol., IFU-01
 101.523-24u/03u – without *Taq* pol., IFU-02

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40:145, 40:148, 40:157-40:158, 40:162, 40:164-40:165, 40:167, 40:169, 40:173-40:174, 40:176-40:177, 40:181, 40:184, 40:189-40:190, 40:200-40:203, 40:205-40:206, 40:209, 40:211, 40:214, 40:219-40:220, 40:224-40:226, 40:229-40:230 and 40:232 and the B*07:34, 07:80, 08:01:01-08:01:11, 08:01:13-08:05, 08:08N-08:12:01, 08:12:03-08:13, 08:15-08:19, 08:21-08:27, 08:29-08:36, 08:38-08:39, 08:41-08:48, 08:50-08:63, 08:65-08:69, 08:71-08:73, 08:75-08:78, 08:80-08:82N, 08:84^w, 08:85-08:86N, 08:88, 08:90-08:106, 13:03, 13:22:01-13:22:02, 13:40^w, 13:45, 13:48, 13:62, 14:13, 15:09, 15:42, 15:48, 15:83, 15:86, 15:188, 15:224, 15:229, 15:243, 15:252, 18:26, 18:61, 27:07:01-27:07:03, 27:11, 27:20, 27:27, 27:33, 27:43, 35:02:01^w-35:02:05^w, 35:04:01-35:04:03, 35:06, 35:09:01-35:09:03, 35:12:01-35:12:03, 35:22, 35:31, 35:59-35:60, 35:81^w, 35:83^w, 35:87-35:88, 35:95^w, 35:129N^w, 35:149, 35:154^w, 35:157^w, 35:162^w, 35:182^w-35:184^w, 35:201, 35:211^w, 35:220^w, 37:12, 38:01:01, 38:01:03-38:21, 38:23-38:28, 38:30-38:37, 38:39-38:40, 39:01:01:01-39:01:01:03, 39:01:03-39:01:11, 39:01:12^w, 39:01:13-39:06:02, 39:08-39:14, 39:16, 39:18-39:20, 39:22, 39:24:01-39:24:02, 39:26-39:28, 39:30-39:32, 39:34-39:35, 39:37-39:42, 39:45-39:48, 39:50-39:54, 39:56-39:81, 41:01-41:03:02, 41:05-41:09, 41:11-41:17, 41:19-41:20, 41:22-41:22, 41:25^w, 41:26, 42:01:01-42:02, 42:04-42:08, 42:10-42:15, 42:17-42:18, 44:10, 44:14, 44:62, 44:77, 44:82, 44:166, 45:14, 46:11, 46:18, 48:10, 48:12-48:13, 51:01:01-51:01:18, 51:01:19^w, 51:01:20-51:01:30, 51:01:32-51:02:02, 51:02:04-51:04, 51:06-51:16, 51:19-51:24:04, 51:26, 51:28, 51:30-51:36, 51:38-51:41N, 51:43-51:44N, 51:46, 51:48-51:53, 51:55-51:60, 51:62-51:74, 51:76-51:81, 51:83, 51:86-51:89, 51:91, 51:95-51:121, 51:123-51:129, 51:131-51:134, 51:136-51:145, 51:147-51:150, 52:01:01:01-52:01:10, 52:01:12-52:11, 52:13-52:20, 52:22-52:23, 52:25, 52:27-52:31, 53:19^w, 54:01:01-54:05N, 54:07-54:08N, 54:12-54:13, 54:17-54:19, 54:21, 54:23-54:26, 55:01:01-55:05, 55:07-55:08, 55:10-55:13, 55:15-55:20, 55:22, 55:24-55:26, 55:28-55:36, 55:38-55:40, 55:42-55:45, 55:47-55:49, 55:51, 55:53-55:57, 56:01:01-56:02, 56:04-56:08, 56:10, 56:12-56:17, 56:19N-56:30, 56:33-56:39, 57:03:01-57:03:02, 57:07, 57:09, 57:17, 57:39, 57:46, 57:57, 58:08:01-58:08:02, 58:20, 58:27-58:28, 59:01:01:01-59:05, 67:01:01-67:03, 78:01:01-78:07 and 82:01-82:03 and the C*15:24 alleles. Specific PCR fragment of 170 bp in the B*40:23, 40:128 and 40:198 and the B*07:90, 13:18, 13:31, 13:41 and 48:19 alleles. Specific PCR fragment of 130 and 170 bp in the B*40:15-40:16, 40:161 and the B*07:05:01-07:06, 07:32, 07:40, 07:53, 07:69, 07:78, 07:97, 07:105, 07:112, 07:123, 07:137-07:138, 07:140, 07:176, 08:20, 08:40, 08:70, 08:79, 15:30, 15:58, 15:73, 15:150, 35:18, 35:44, 35:172^w, 39:33, 39:36, 48:05, 51:05, 51:29, 51:54, 51:61:01-51:61:02, 51:82, 52:21, 52:24, 54:10, 54:20, 55:09, 55:21, 55:37, 55:52, 57:02:01-57:02:02, 57:12, 57:28N and 57:42 alleles. (Both specific fragments may not always be obtained.)

²³Primer mix 67: Specific PCR fragment of 85 bp in the B*40:89 and the B*08:74 alleles. Specific PCR fragment of 255 bp in the B*40:107 allele.

²⁴Primer mix 78: Specific PCR fragment of 115 bp in the B*40:111 allele. Specific PCR fragment of 250 bp in the B*40:135 allele.

²⁵Primer mix 79: Specific PCR fragment of 185 bp in the B*40:145 allele. Specific PCR fragment of 220 bp in the B*40:116 allele.

²⁶Primer mix 81: Specific PCR fragment of 225 bp in the B*40:144N allele. Specific PCR fragment of 335 bp in the B*40:141 allele.

²⁷Primer mix 82: Specific PCR fragment of 75 bp in the B*40:115 allele. Specific PCR fragment of 175 bp in the B*40:150 and the B*07:120, 15:214 and 57:29 alleles.

‘w’, might be weakly amplified.

101.523-24/03– including *Taq* pol., IFU-01
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Lot-specific information

		Well ⁶																																																		
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4							
Length of spec.		175	215	130	95	190	95	105	235	160	215	85	95	90	90	150	160	75	120	105	320	135	145	235	95	165	125	120	180	335	235	190	225	255	245	190	140	135	270	120	330	120	205	95	185	110						
PCR product																																																				
Length of int. pos. control¹		800	800	1070	800	1070	800	1070	1070	1070	1070	1070	1070	800	800	800	800	800	1070	1070	800	800	800	800	1070	1070	1070	1070	1070	1070	800	1070	1070	1070	1070	1070	1070	1070	800	1070	1070	1070	1070	1070	1070	800						
Well No.																																																				
HLA-B allele^{2,3}		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4							
*40:01:01-40:01:05, 40:01:07-40:01:10, 40:01:12-40:01:27, 40:01:29, 40:100-40:101, 40:108, 40:112, 40:123, 40:126, 40:134, 40:138, 40:140, 40:146-40:147, 40:152, 40:154, 40:156, 40:170-40:171, 40:175, 40:182, 40:185-40:186, 40:193-40:196, 40:204, 40:207-40:208, 40:212, 40:215, 40:217-40:218, 40:223, 40:227-40:228			+	+																																																
*40:01:06		+	+																																																	
*40:01:11		+	+																																																	
*40:01:28		+	+																																																	
*40:02:01-40:02:03, 40:02:05-40:02:15, 40:02:17, 40:104, 40:143, 40:169, 40:173, 40:181, 40:189, 40:202-40:203, 40:205-40:206, 40:211, 40:214, 40:224				+	+	+																																														
*40:02:04			+	+	+																																															
*40:02:16			+	+																																																
*40:03			+	+		+	+																																													
*40:04			+	+																																																
*40:05, 40:174			+	+	+																																															
*40:06:01:01-40:06:04, 40:06:06, 40:165, 40:167, 40:230			+	+																																																
*40:06:05			+	+																																																
*40:07			+																																																	
*40:08, 40:232					+	+																																														
*40:09			+	+	+																																															
*40:10:01			+																																																	
*40:10:02			+																																																	
*40:11:01			+	+																																																
*40:11:02			+	+																																																
*40:12			+																																																	
*40:13				+	+																																															
*40:14:01, 40:121, 40:136			+																																																	
*40:14:02-40:14:03			+																																																	
*40:15			+		+																																															
*40:16			+		+																																															
*40:18			+	+	+	+																																														
*40:19			+	+	+	+																																														
*40:20			+	+		+																																														
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*40:22N			+	+																																																
*40:23			+	+																																																
*40:24			+	+	+	+	+																																													
Well No.																																																				
HLA-B allele		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4							

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Lot-specific information

																				Well No.																										
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4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8					
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*15:01:01:01-15:01:01:02N, 15:01:03-15:01:04, 15:01:06-15:02:06, 15:05:01-15:06, 15:08, 15:11:01-15:12, 15:14-15:15, 15:19, 15:21, 15:25:01-15:28, 15:31-15:33, 15:35, 15:38:01-15:39:02, 15:44, 15:50, 15:56-15:57, 15:60, 15:63, 15:65-15:66, 15:70, 15:75-15:79N, 15:81-15:82, 15:84, 15:88, 15:92, 15:94N, 15:96-15:97, 15:101-15:102, 15:104-15:105, 15:107, 15:109-15:111N, 15:113, 15:120-15:122, 15:125, 15:128, 15:135-15:136, 15:139-15:140, 15:142, 15:144-15:149N, 15:152, 15:154, 15:159-15:160, 15:163-15:167, 15:169-15:172, 15:174, 15:178-15:179, 15:181N-15:185, 15:187, 15:189-15:193, 15:195, 15:199, 15:201, 15:203, 15:205-15:206, 15:209N, 15:211, 15:213, 15:217-15:219, 15:223, 15:228, 15:231-15:234, 15:236-15:237, 15:240, 15:244-15:251, 15:257-15:258N, 15:260-15:262N, 15:265, 15:267, 46:01:01-46:03, 46:05, 46:07N-46:10, 46:13:01-46:13:03, 46:15N-46:17, 46:19-46:24, 46:26-46:29, 46:31, 46:34-46:38																																																
*15:01:02																																																
*15:03:01-15:03:04, 15:54, 15:61, 15:64:01-15:64:02, 15:69, 15:91, 15:98, 15:103, 15:123, 15:127, 15:131-15:132, 15:151, 15:156, 15:158, 15:173, 15:220, 15:235, 15:242, 15:253, 15:259, 15:266								+																																								
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HLA-B allele	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4				



101.523-24/03– including *Taq* pol., IFU-01
 101.523-24u/03u – without *Taq* pol., IFU-02

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Lot No.: 27S

Lot-specific information

																																								Well No.									
																																								HLA-B allele									
4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8		*13:62, 51:01:01-51:01:08, 51:01:10-51:01:18, 51:01:20, 51:01:22-51:01:24, 51:01:26-51:01:30, 51:01:32-51:02:02, 51:02:04-51:03, 51:07:01-51:07:02, 51:11N-51:12, 51:14, 51:21-51:22, 51:24:01, 51:26, 51:28, 51:30, 51:32-51:33, 51:35, 51:38-51:39, 51:41N, 51:43, 51:48-51:53, 51:57-51:58, 51:60, 51:63, 51:65-51:71, 51:74, 51:76-51:80, 51:83, 51:86, 51:88-51:89, 51:95-51:96, 51:98N-51:102, 51:104-51:107, 51:109-51:111, 51:113-51:114, 51:117-51:121, 51:123-51:129, 51:131-51:134, 51:136-51:138, 51:140, 51:142-51:145, 51:147, 51:149N-51:150, 52:01:01:01-52:01:10, 52:01:12-52:02, 52:04-52:07, 52:09, 52:11, 52:13, 52:17-52:18, 52:20, 52:22-52:23, 52:25, 52:27-52:31, 55:01:06, 55:17, 55:38, 56:05:01-56:06, 56:21, 58:08:01-58:08:02, 78:01:01-78:03, 78:05-78:07				
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101.523-24/03– including *Taq* pol., IFU-01
 101.523-24u/03u – without *Taq* pol., IFU-02

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Lot-specific information

Well No.									1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4									
HLA-B allele	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4								
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*15:09, 15:243, 15:252																			+																																	
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101.523-24/03– including *Taq* pol., IFU-01
 101.523-24u/03u – without *Taq* pol., IFU-02

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Lot No.: 27S

Lot-specific information

																				Well No.																										
																				HLA-B allele																										
4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8					
5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6					
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																																										*15:20, 15:34, 15:85, 15:194, 35:46, 35:207, 46:33				
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4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	Well No.				
5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	HLA-B allele				

101.523-24/03– including *Taq* pol., IFU-01
 101.523-24u/03u – without *Taq* pol., IFU-02

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Lot-specific information

Well No.									1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4							
HLA-B allele	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4				
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*37:01:08, 37:02		+																																														
*37:04:01-37:04:02		+																																														
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*37:21																																																
*37:23		+																																														
*37:28		+																																														
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*38:12																																																
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*39:01:12																																																
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*41:02:01-41:02:04, 41:11, 41:13, 41:15		+																																														
*41:03:01-41:03:02		+																																														
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Well No.									1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4							
HLA-B allele	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4				

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 101.523-24u/03u – without *Taq* pol., IFU-02

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Lot-specific information

																																								Well No.										
																																								HLA-B allele										
4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8									
5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6									
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																																														*37:01:08, 37:02 *37:04:01-37:04:02 *37:05				
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																																														*38:12 *38:19, 39:03, 39:24:01-39:24:02, 39:37, 39:76 *39:01:12				
																																														*39:06:01-39:06:02, 39:33-39:34, 39:57, 39:62, 39:64 *39:23, 39:49, 44:156 *39:29 *39:31				
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																																														*41:01, 41:06, 41:09, 41:16-41:17, 41:20, 41:22 *41:02:01-41:02:04, 41:11, 41:13, 41:15 *41:03:01-41:03:02 *41:04				
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																																														*42:05:01-42:05:02 *42:09 *42:17				
4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	Well No.								
5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	HLA-B allele								

101.523-24/03– including *Taq* pol., IFU-01
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Lot No.: 27S**Lot-specific information**

Primer mix 45: Specific PCR fragment of 175 bp in the B*40:56 allele. Specific PCR fragment of 235 bp in the B*40:55 alleles.

Primer mix 48: Specific PCR fragment of 215 bp in the B*40:61 allele. Specific PCR fragment of 245 bp in the B*40:73 and B*18:06 and 46:14 alleles.

Primer mix 56: Specific PCR fragment of 100 bp in the B*40:69 allele. Specific PCR fragment of 165 bp in the B*40:97 allele. Specific PCR fragment of 270 bp in the B*40:221 allele

Primer mix 59: Specific PCR fragment of 85 bp in the B*40:127 and the B*44:143 alleles. Specific PCR fragment of 190 bp in the B*40:81 allele.

Primer mix 60: Specific PCR fragment of 135 bp in the B*40:82 allele. Specific PCR fragment of 250 bp in the B*40:88 and the B*27:80 alleles.

Primer mix 62: Specific PCR fragment of 195 bp in the B*40:84 allele. Specific PCR fragment of 245 bp in the B*40:119 allele.

Primer mix 63: Specific PCR fragment of 180 bp in the B*40:85 allele. Specific PCR fragment of 240 bp in the B*40:133Q allele.

Primer mix 65: Specific PCR fragment of 130 bp in the B*40:02:01-40:02:09, 40:02:11-40:02:17, 40:04-40:06:06, 40:08, 40:11:01-40:11:02, 40:13-40:14, 40:19, 40:26-40:29, 40:35, 40:37, 40:39-40:40, 40:50, 40:53, 40:56-40:58, 40:64, 40:68, 40:70-40:71, 40:75, 40:78, 40:82-40:83, 40:86, 40:90, 40:93-40:97, 40:99, 40:103-40:105, 40:107, 40:109-40:111, 40:115, 40:119, 40:121-40:122, 40:127, 40:129, 40:133Q, 40:136, 40:142N-40:145, 40:148, 40:157-40:158, 40:162, 40:164-40:165, 40:167, 40:169, 40:173-40:174, 40:176-40:177, 40:181, 40:184, 40:189-40:190, 40:200-40:203, 40:205-40:206, 40:209, 40:211, 40:214, 40:219-40:220, 40:224-40:226, 40:229-40:230 and 40:232 and the B*07:34, 07:80, 08:01:01-08:01:11, 08:01:13-08:05, 08:08N-08:12:01, 08:12:03-08:13, 08:15-08:19, 08:21-08:27, 08:29-08:36, 08:38-08:39, 08:41-08:48, 08:50-08:63, 08:65-08:69, 08:71-08:73, 08:75-08:78, 08:80-08:82N, 08:84^w, 08:85-08:86N, 08:88, 08:90-08:106,13:03, 13:22:01-13:22:02, 13:40^w, 13:45, 13:48, 13:62, 14:13, 15:09, 15:42, 15:48, 15:83, 15:86, 15:188, 15:224, 15:229, 15:243, 15:252, 18:26, 18:61, 27:07:01-27:07:03, 27:11, 27:20, 27:27, 27:33, 27:43, 35:02:01^w-35:02:05^w, 35:04:01-35:04:03, 35:06, 35:09:01-35:09:03, 35:12:01-35:12:03, 35:22, 35:31, 35:59-35:60, 35:81^w, 35:83^w, 35:87-35:88, 35:95^w, 35:129N^w, 35:149, 35:154^w, 35:157^w, 35:162^w, 35:182^w-35:184^w, 35:201, 35:211^w, 35:220^w, 37:12, 38:01:01, 38:01:03-38:21, 38:23-38:28, 38:30-38:37, 38:39-38:40, 39:01:01:01-39:01:01:03, 39:01:03-39:01:11, 39:01:12^w, 39:01:13-39:06:02, 39:08-39:14, 39:16, 39:18-39:20, 39:22, 39:24:01-39:24:02, 39:26-39:28, 39:30-39:32, 39:34-39:35, 39:37-39:42, 39:45-39:48, 39:50-39:54, 39:56-39:81, 41:01-41:03:02, 41:05-41:09, 41:11-41:17, 41:19-41:20, 41:22-41:22, 41:25^w, 41:26, 42:01:01-42:02, 42:04-42:08, 42:10-42:15, 42:17-42:18, 44:10, 44:14, 44:62, 44:77, 44:82, 44:166, 45:14, 46:11, 46:18, 48:10, 48:12-48:13, 51:01:01-51:01:18, 51:01:19^w, 51:01:20-51:01:30, 51:01:32-51:02:02, 51:02:04-51:04, 51:06-51:16, 51:19-51:24:04, 51:26, 51:28, 51:30-51:36, 51:38-51:41N, 51:43-51:44N, 51:46, 51:48-51:53, 51:55-51:60, 51:62-51:74, 51:76-51:81, 51:83, 51:86-51:89, 51:91, 51:95-51:121, 51:123-51:129, 51:131-51:134, 51:136-51:145, 51:147-51:150, 52:01:01:01-52:01:10, 52:01:12-52:11, 52:13-52:20, 52:22-52:23, 52:25, 52:27-52:31, 53:19^w, 54:01:01-54:05N, 54:07-54:08N, 54:12-54:13, 54:17-54:19, 54:21, 54:23-54:26, 55:01:01-55:05, 55:07-55:08, 55:10-55:13, 55:15-55:20, 55:22, 55:24-55:26, 55:28-55:36, 55:38-55:40, 55:42-55:45, 55:47-55:49, 55:51, 55:53-55:57, 56:01:01-56:02, 56:04-56:08, 56:10, 56:12-56:17, 56:19N-56:30, 56:33-56:39, 57:03:01-57:03:02, 57:07, 57:09, 57:17, 57:39, 57:46, 57:57, 58:08:01-58:08:02, 58:20, 58:27-58:28, 59:01:01:01-59:05, 67:01:01-67:03, 78:01:01-78:07 and 82:01-82:03 and the C*15:24 alleles. Specific PCR fragment of 170 bp in the B*40:23, 40:128 and 40:198 and the B*07:90, 13:18, 13:31, 13:41 and 48:19 alleles. Specific PCR fragment of 130 and 170 bp in the B*40:15-40:16, 40:161 and the B*07:05:01-07:06, 07:32, 07:40, 07:53, 07:69, 07:78, 07:97, 07:105, 07:112, 07:123, 07:137-07:138, 07:140, 07:176, 08:20, 08:40, 08:70, 08:79, 15:30, 15:58, 15:73, 15:150, 35:18, 35:44, 35:172^w, 39:33, 39:36, 48:05, 51:05, 51:29, 51:54, 51:61:01-51:61:02, 51:82, 52:21, 52:24, 54:10, 54:20, 55:09, 55:21, 55:37, 55:52, 57:02:01-57:02:02, 57:12, 57:28N and 57:42 alleles. (Both specific fragments may not always be obtained.)

Primer mix 67: Specific PCR fragment of 85 bp in the B*40:89 and the B*08:74 alleles. Specific PCR fragment of 255 bp in the B*40:107 allele.

Primer mix 78: Specific PCR fragment of 115 bp in the B*40:111 allele. Specific PCR fragment of 250 bp in the B*40:135 allele.

Primer mix 79: Specific PCR fragment of 185 bp in the B*40:145 allele. Specific PCR fragment of 220 bp in the B*40:116 allele.

Primer mix 81: Specific PCR fragment of 225 bp in the B*40:144N allele. Specific PCR fragment of 335 bp in the B*40:141 allele.

Primer mix 82: Specific PCR fragment of 75 bp in the B*40:115 allele. Specific PCR fragment of 175 bp in the B*40:150 and the B*07:120, 15:214 and 57:29 alleles.

^w, might be weakly amplified.

101.523-24/03– including *Taq* pol., IFU-01
101.523-24u/03u – without *Taq* pol., IFU-02

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Lot No.: 27S

Lot-specific information

Primers

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec. PCR product(s)	175	215	130	95	190	95	105	235	160	215	85	95
5'-primer(s) ¹	363 5'-Agg 3'	97 5'-TCC 3'	106 5'-CCg 3'	363 5'-AgC 3'	412 5'-ATg 3'	363 5'-AgC 3'	206 5'-AgA 3'	363 5'-AgC 3'	357 5'-Tgg 3'	97 5'-TCC 3'	463 5'-TgA 3'	206 5'-gAA 3'
	363 5'-AgA 3'							363 5'-AgC 3'				
3'-primer(s) ²	499 5'-ggA 3'	272 5'-Tgg 3'	193 5'-CgT 3'	419 5'-CgT 3'	559 5'-CTC 3'	418 5'-gTT 3'	272 5'-Tgg 3'	559 5'-CAG 3'	477 5'-gCg 3'	272 5'-TgA 3'	499 5'-ggA 3'	259 5'-gTT 3'
			193 5'-TgT 3'			419 5'-Cgg 3'					512 5'-CCA 3'	
						419 5'-CgA 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(s)	90	90	150	75 160	120	105	320	135 285	145	235	95	165
5'-primer(s) ¹	363 5'-AgC 3'	144 5'-gCA 3'	206 5'-gAA 3'	486 5'-ACC 3'	527 5'-TgT 3'	369 5'-TAC 3'	379 5'-ACC 3'	363 5'-AgC 3'	209 5'-ggC 3'	363 5'-AgC 3'	257 5'-CCC 3'	436 5'-AgA 3'
	363 5'-AgC 3'			570 5'-gAT 3'				512 5'-gTg 3'				
3'-primer(s) ²	412 5'-gTC 3'	193 5'-CgT 3'	317 5'-ggA 3'	605 5'-gCT 3'	605 5'-gCT 3'	435 5'-TCT 3'	3 rd I 5'-TAT 3'	605 5'-gCT 3'	311 5'-ggT 3'	559 5'-CTC 3'	311 5'-ggT 3'	559 5'-CTC 3'
Well No.	13	14	15	16	17	18	19	20	21	22	23	24

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
Length of spec. PCR product(s)	125	120	180	335	235	190	225	255	245	190 235	140	135
5'-primer(s) ¹	206 5'-gAA 3'	527 5'-TgA 3'	106 5'-CCA 3'	361 5'-AgT 3'	363 5'-AgC 3'	412 5'-ATA 3'	419 5'-gTC 3'	97 5'-TCC 3'	355 5'-TCA 3'	409 5'-ggT 3'	363 5'-AgC 3'	97 5'-TCT 3'
				363 5'-Agg 3'		412 5'-ATA 3'	420 5'-TTA 3'			454 5'-ACT 3'		
				363 5'-Agg 3'		412 5'-ATA 3'						
				363 5'-AgA 3'								
3'-primer(s) ²	292 5'-gTC 3'	605 5'-gCT 3'	243 5'-TAA 3'	3 rd I 5'-TAT 3'	559 5'-CgT 3'	559 5'-CTC 3'	605 5'-gCT 3'	311 5'-ggT 3'	559 5'-CTC 3'	605 5'-gCT 3'	463 5'-gCT 3'	193 5'-CgT 3'
Well No.	25	26	27	28	29	30	31	32	33	34	35	36

101.523-24/03– including *Taq* pol., IFU-01
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Lot-specific information

Well No.	37	38	39	40	41	42	43	44	45	46	47	48
Length of spec. PCR product(s)	125	120	330	120	205	95	185	110	175	545	145	215
5'-primer(s) ¹	355 5' -TCA 3'	355 5' -TCA 3'	45 5' -ggA 3'	388 5' -gg 3'	97 5' -TCC 3'	141 5' -ATT 3'	355 5' -TCA 3'	412 5' -ATA 3'	814 5' -TgA 3'	103 5' -CCT 3'	89 5' -gAC 3'	97 5' -TCC 3'
3'-primer(s) ²	583 5' -gTg 3'	435 5' -TCT 3'	206 5' -CCT 3'	499 5' -ggA 3'	259 5' -gTT 3'	193 5' -CgT 3'	499 5' -ggA 3'	479 5' -CCA 3'	916 5' -gAC 3'	362 5' -TCC 3'	193 5' -CgT 3'	272 5' -TgT 3'
Well No.	37	38	39	40	41	42	43	44	45	46	47	48
Well No.	49	50	51	52	53	54	55	56	57	58	59	60
Length of spec. PCR product(s)	120	250	205	90	165	125	125	100	385	190	85	135
5'-primer(s) ¹	419 5' -gTT 3'	97 5' -TCC 3'	490 5' -CgA 3'	512 5' -gTT 3'	363 5' -Agg 3'	206 5' -gAA 3'	523 5' -CCg 3'	206 5' -gAA 3'	322 5' -gCC 3'	363 5' -AgC 3'	124 5' -gCC 3'	350 5' -TCg 3'
3'-primer(s) ²	499 5' -ggA 3'	302 5' -ggT 3'	3rd I 5' -TAT 3'	559 5' -CAg 3'	488 5' -CCA 3'	283 5' -TgC 3'	605 5' -gCT 3'	263 5' -gTA 3'	419 5' -CgT 3'	512 5' -CCA 3'	272 5' -Tgg 3'	559 5' -CTC 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. PCR product(s)	80	195	180	105	130	145	85	225	75	505	120	245
5'-primer(s) ¹	165 5' -ACC 3'	97 5' -TCC 3'	363 5' -AgC 3'	357 5' -Tgg 3'	412 5' -ATA 3'	499 5' -TCA 3'	363 5' -AgC 3'	363 5' -AgC 3'	142 5' -TCA 3'	193 5' -CCA 3'	193 5' -CCA 3'	357 5' -Tgg 3'
3'-primer(s) ²	203 5' -TCC 3'	251 5' -CCg 3'	500 5' -ggA 3'	419 5' -CgA 3'	499 5' -ggT 3'	605 5' -gCT 3'	409 5' -ATA 3'	547 5' -gTg 3'	175 5' -CCg 3'	412 5' -gTC 3'	272 5' -TgC 3'	559 5' -CTC 3'
Well No.	61	62	63	64	65	66	67	68	69	70	71	72

101.523-24/03– including *Taq* pol., IFU-01
101.523-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **27S**

Lot-specific information

Well No.	73	74	75	76	77	78	79	80	81	82	83	84
Length of spec. PCR product(s)	245	210	270	260	185	115	185	115	225	75	150	200
5'-primer(s) ¹	806 5'-ggA 3'	357 5'-Tgg 3'	363 5'-Agg 3'	97 5'-TCC 3'	97 5'-TCC 3'	97 5'-TCC 3'	97 5'-TCC 3'	493 5'-CTg 3'	715 5'-CAg 3'	256 5'-ACT 3'	652 5'-CCA 3'	412 5'-ATA 3'
					428 5'-Cgg 3'	363 5'-AgC 3'	363 5'-Agg 3'	668 5'-ggC 3'	826 5'-CTT 3'	3 rd I 5'-Agg 3'		
3'-primer(s) ²	916 5'-gAC 3'	527 5'-CCT 3'	594 5'-CCg 3'	309 5'-gTg 3'	252 5'-TC 3'	307 5'-CCA 3'	239 5'-gCT 3'	559 5'-CTC 3'	916 5'-gAC 3'	292 5'-gTA 3'	761 5'-CAg 3'	572 5'-gCg 3'
				323 5'-Agg 3'	559 5'-CTC 3'	437 5'-AAC 3'	543 5'-gCg 3'	754 5'-Agg 3'		704 5'-CCA 3'		
Well No.	73	74	75	76	77	78	79	80	81	82	83	84

Well No.	85	86
Length of spec. PCR product(s)	260	245
5'-primer(s) ¹	652 5'-CCA 3'	357 5'-Tgg 3'
3'-primer(s) ²	872 5'-TCA 3'	559 5'-CTC 3'
Well No.	85	86

¹The nucleotide position, in the 1st, 2nd, 3rd or 4th exons or the 3rd intron, matching the specificity-determining 3'-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. 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.

²The nucleotide position, in the 2nd, 3rd, 4th or 5th exons or the 3rd intron, 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.

101.523-24/03– including *Taq* pol., IFU-01
 101.523-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **27S**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-B*40 SSP subtyping kit																				
				Well																
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
				Prod. No.:	201317801	201184802	201317803	201317804	201317805	201317806	201317807	201317808	201317809	201317810	201317811	201317812	201317813	201317814	201317815	201317816
IHCW cell line		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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-

101.523-24/03– including *Taq* pol., IFU-01
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Lot No.: **27S**

Lot-specific information

CELL LINE VALIDATION SHEET																							
HLA-B*40 SSP subtyping kit																							
				Well																			
				17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32				
				Prod. No.:	201206517	201317818	201317819	201317820	201317821	201317822	201317823	201317824	201317825	201317826	201317827	201317828	201317829	201317830	201317831	201317832			
IHWC cell line		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	-	-	+	-	-	-	-	-	-	-	-	+	-	-	-	-			

101.523-24/03– including *Taq* pol., IFU-01
 101.523-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **27S**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-B*40 SSP subtyping kit																				
				Well																
				33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
				Prod. No.:	200852533	201317834	201317835	201317836	201317837	201317838	200852539	201317840	201317841	201317842	201317843	201317844	201306545	201317846	201317847	201317848
IHCW cell line		B*																		
1	9001	SA	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	9280	LK707	*52:01	*73:01	-	-	-	-	-	-	-	-	W	-	-	-	-	-	-	
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	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	

101.523-24/03– including *Taq* pol., IFU-01
 101.523-24u/03u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **27S**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-B*40 SSP subtyping kit																				
				Well																
				49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	
				Prod. No.:	201317849	201317850	201317851	201317852	201317853	201306554	201317855	201317856	201317857	201317858	201317859	201317860	201317861	201317862	201317863	201317864
IHWC cell line		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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.523-24/03– including *Taq* pol., IFU-01
 101.523-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **27S**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-B*40 SSP subtyping kit																				
				Well																
				65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	
				Prod. No.:	201317865	201317866	201317867	201317868	201317869	200852570	201317871	201069972	201206573	201206574	201206575	201206576	201206577	201206578	201206579	201206580
IHCW cell line		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	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-

101.523-24/03– including *Taq* pol., IFU-01
 101.523-24u/03u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **27S**

Lot-specific information

CELL LINE VALIDATION SHEET											
HLA-B*40 SSP subtyping kit											
					Well						
					81	82	83	84	85	86	
					Prod. No.:	201206581	201206582	201206583	201206584	201206585	201206586
	IHWC cell line		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	-	-	-	-	-	-	

101.523-24/03– including *Taq* pol., IFU-01
 101.523-24u/03u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **27S**

Lot-specific information
CERTIFICATE OF ANALYSIS

Olerup SSP® HLA-B*40 SSP

Product number: **101.523-24/03 – including *Taq* pol.
 101.523-24u/03u – without *Taq* pol.**

Lot number: **27S**

Expiry date: **2015-November-01**

Number of tests: **24 tests – Product No. 101.523-24/24u
 3 tests – Product No. 101.523-03/03u**

Number of wells per test: **86**

Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2013-178-01	33	2008-525-33	65	2013-178-65
2	2011-848-02	34	2013-178-34	66	2013-178-66
3	2013-178-03	35	2013-178-35	67	2013-178-67
4	2013-178-04	36	2013-178-36	68	2013-178-68
5	2013-178-05	37	2013-178-37	69	2013-178-69
6	2013-178-06	38	2013-178-38	70	2008-525-70
7	2013-178-07	39	2008-525-39	71	2013-178-71
8	2013-178-08	40	2013-178-40	72	2010-699-72
9	2013-178-09	41	2013-178-41	73	2012-065-73
10	2013-178-10	42	2013-178-42	74	2012-065-74
11	2013-178-11	42	2013-178-43	75	2012-065-75
12	2013-178-12	43	2013-178-44	76	2012-065-76
13	2013-178-13	45	2012-065-45	77	2012-065-77
14	2013-178-14	46	2013-178-46	78	2012-065-78
15	2013-178-15	47	2013-178-47	79	2012-065-79
16	2013-178-16	48	2013-178-48	80	2012-065-80
17	2012-065-17	49	2013-178-49	81	2012-065-81
18	2013-178-18	50	2013-178-50	82	2012-065-82
19	2013-178-19	51	2013-178-51	83	2012-065-83
20	2013-178-20	52	2013-178-52	84	2012-065-84
21	2013-178-21	53	2013-178-53	85	2012-065-85
22	2013-178-22	54	2012-065-54	86	2012-065-86
23	2013-178-23	55	2013-178-55		
24	2013-178-24	56	2013-178-56		
25	2013-178-25	57	2013-178-57		
26	2013-178-26	58	2013-178-58		
27	2013-178-27	59	2013-178-59		
28	2013-178-28	60	2013-178-60		
29	2013-178-29	61	2013-178-61		
30	2013-178-30	62	2013-178-62		
31	2013-178-31	63	2013-178-63		
32	2013-178-32	64	2013-178-64		

101.523-24/03– including *Taq* pol., IFU-01
101.523-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **27S**

Lot-specific information

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

No DNAs carrying the alleles to be amplified by primer solutions 11, 16, 23 to 25, 27, 34, 38, 42 to 45, 47 to 57, 59 to 63, 67 to 69, 71, 73, 75 to 83 and 85 were available.

The specificities of the primers in primer solutions 11, 16, 25, 34, 38, 42, 43, 45, 48 to 50, 52, 54, 61, 69, 71, 76, 77, 80 and 82 were tested by separately adding one or two additional 5'-primers, respectively one or two additional 3'-primers.

In primer solutions 27, 44, 53, 56, 62, 63, 67, 68, 75, 78, 79, 83 and 85 it was only possible to test the 5'-primers, the 3'-primers were not possible to test.

In primer solutions 23, 24, 47, 51, 55, 57, 59, 60, 73 and 81 it was only possible to test the 3'-primers, the 5'-primers were not possible to test.

One of the 3'-primers in primer solutions 3, 6, 54, 76, 77, 80 and 82 and one of the 5'-primers in primer solutions 1, 16, 28, 30, 34, 40, 45, 65, 77, 80 and 82 were not possible to test.

One additional primer in primer solutions 6 and 37 was tested by separately adding one additional 5'-primer respectively one additional 3'-primer.

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

Date of approval: 2013-July-01

Approved by:

Production Quality Control

101.523-24/03– including *Taq* pol., IFU-01
101.523-24u/03u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **27S**

Lot-specific information

Declaration of Conformity

Product name: *Olerup* SSP® HLA-B*40
Product number: 101.523-24/24u, -03/03u
Lot number: 27S

Intended use: HLA-B*40 high resolution histocompatibility testing

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

We, *Olerup* SSP AB, hereby declare that this product, to which this Declaration of Conformity relates is in conformity with the following Standard(s) and other normative document(s) ISO 9001:2008 and ISO 13485:2012, following the provisions of the 98/79/EC Directive on *in vitro* diagnostic medical devices, Annex II List B, conformity assessed using Annex IV, as transposed into the national laws of the Member States of the European Union.

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

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

Stockholm, Sweden
2013-July-01

Ann-Cathrin Jareman
Head of QA and Regulatory Affairs

101.523-24/03– including *Taq* pol., IFU-01
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Lot-specific information

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Lot No.: **27S**

Lot-specific information

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

Olerup Inc., 901 S. Bolmar St., Suite R, West Chester, PA 19382

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