

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **42S**

Lot-specific information
Olerup SSP[®] HLA-C*07

Product number:	101.615-24/04 – including <i>Taq</i> pol. 101.615-24u/04u – without <i>Taq</i> pol.
Lot number:	42S
Expiry date:	2015-December-01
Number of tests:	24 tests – Product No. 101.615-24/24u 4 tests – Product No. 101.615-04/04u
Number of wells per test:	74
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. 42S.

**CHANGES COMPARED TO THE PREVIOUS OLERUP SSP[®]
HLA-C*07 Lot (38R)**

The HLA-C*07 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

Ten wells have been added to HLA-C*07, wells **65 to 74**.

The Lot-specific information for HLA-C*07 including and without
Taq polymerase is described in one common Product Insert.

¹As described in section Uniquely Identified Alleles.

The HLA-C*07 specificity and interpretation tables have been updated for the HLA-C alleles described since the previous *Olerup SSP[®]* HLA-C*07 lot was made (Lot No. 38R).

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

Well	5'-primer	3'-primer	rationale
9	Moved	Moved	Primer pair moved to well 71, to decrease primer oligomer formation.
19	Moved,	Moved, modified	Two primer pairs moved to well 74, 3'-primer modified to decrease unspecific amplifications.
24	Moved	Moved	Primer pair moved to well 74, to decrease unspecific amplifications.
35	Moved	Moved, modified	Primer pair moved to well 73 to decrease primer oligomer formation, 3'-primer modified to decrease unspecific amplifications.
38	Moved	Moved	Primer pair moved to well 70 to decrease unspecific amplifications.
65	New	New	New primer pair for the A*07:264N allele.
66	New	New	New primer pair for the A*07:279 allele.
67	New	New	New primer pair for the A*07:285 allele.
68	New	New	New primer pair for the A*07:149 allele.
69	New	New	New primer pair for the A*07:171 allele.
70	Added	Added	Primer pair added from well 38.
71	Added	Added	Primer pair added from well 9.
72	Added	Added	Primer pair added from well 24, 5'-primer added for the C*07:137:02 allele.
73	Added	Added	Primer pair added from well 35.
74	Added	Added	Two primer pairs added from well 9.

Change in revision R01 compared to R00:

1. The HLA-C*07:24 and 07:218 and the C*03:125, 03:176, 05:81, 06:87, 12:45 and 16:13 alleles are not amplified by primer mix 61. This has been corrected in the Specificity and Interpretation Tables. Thus, this lot of the HLA-C*07 subtyping kit cannot distinguish the C*07:198N and the C*07:218 alleles.

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PRODUCT DESCRIPTION

HLA-C*07 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the HLA-C*07:01 to HLA-C*07:299 alleles.

PLATE LAYOUT

Each test consists of 74 PCR reactions in a 96 well cut 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	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	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-C*07’ in silver/gray ink.
 Well No. 1 is marked with the Lot No. ‘42S’.

A faint row of numbers is seen between wells 1 and 2 or wells 7 and 8 of the PCR trays. These stem from the manufacture of the trays, and should be disregarded.

The PCR plates are heat-sealed with a PCR-compatible foil.

INTERPRETATION

The interpretation of HLA-C*07 SSP subtypings will be influenced by the C*01:60 allele, three C*02, several C*03, several C*04, most C*05, most C*06, most C*08, five C*12, the C*14:17 allele, five C*15, two C*16, the C*17 and the C*18 alleles when present on the other haplotype.

In addition, the A*01:110 and A*11:135 alleles will be amplified by primer mix 22, the A*24:02:62 allele will be amplified by primer mix 24, the A*29:10, B*14:32 and B*18:83 alleles will be amplified by primer mix 12, the A*30:01:03 allele will be amplified by primer mix 20, the A*33:03:09 allele will be amplified by primer mixes 20 and 72, the A*68:01:12 allele will be amplified by primer mix 24 and 72, the B*07:77 allele will be amplified by primer mixes 18 and 37, the B*07:87 and B*27:55 will be amplified by primer mix 50, the B*08:17, B*08:39 and B*08:47 alleles by primer mix 32, the B*15:193 allele by primer mixes 35 and 73, the

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B*27:36, B*48:21 and B*48:26 alleles by primer mix 7, the B*35:08:04 allele by primer mixes 2, 11, 20, 27, 42, 56 and 59, the B*35:178 and B*73:01-73:02 alleles will be amplified by primer mix 45, the B*37:04:02 allele by primer mixes 11, 14, 20, 53 and 59, the B*38:23 and B*39:73 alleles by primer mix 8, the B*40:60 allele by primer mixes 4, 18 and 37, the B*40:100 allele by primer mix 10, the B*44:148 allele by primer mixes 6 and 12, the B*46:06 allele by primer mix 16, the B*51:142 allele will be amplified by primer mix 54 and the B*56:08 and B*56:14 alleles will be amplified by primer mix 25.

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UNIQUELY IDENTIFIED ALLELES

All the HLA-C*07 alleles, i.e. **C*07:01 to C*07:299**, recognized by the HLA Nomenclature Committee in January 2013¹ will be amplified by the primers in the HLA-C*07 SSP kit².

The HLA-C*07 kit enables separation of the confirmed HLA-C*07 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-C*07 alleles is listed below.

The HLA-C*07 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 C*07:78 and 07:235 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 40.

The C*07:93 and 07:207 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 42.

The C*07:100 and 07:161 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 49.

The C*07:104N, 07:119 and 07:124 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 50.

The C*07:117 and 07:126 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 51.

The C*07:118 and 07:203 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 52.

The C*07:129 and 07:153 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 54.

The C*07:132 and 07:179 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 55.

The C*07:147 and 07:241 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 60.

The C*07:164N and 07:212 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 58.

The C*07:165 and 07:180 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 60.

The C*07:227N and 07:254 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 30.

The HLA-C*07 subtyping kit cannot distinguish the following silent mutations: the C*07:01:01:01-07:01:04, 07:01:06-07:01:24 and 07:01:26-07:01:33 alleles, the C*07:02:01:01-07:02:39 alleles, the C*07:04:01-07:04:08, the C*07:17:01-07:17:02, the C*07:27:01-07:27:02, the C*07:31:01-07:31:02, the C*07:38:01-07:38:02, the C*07:56:01-07:56:02, the C*07:96:01-07:96:02, the C*07:137:01-07:137:02 or the C*07:141:01-07:141:02 alleles.

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

²This lot of the HLA-C*07 subtyping kit cannot distinguish the C*07:198N and the C*07:218 alleles.

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ALLELE CONFIRMATION STATUS

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
C*07:01:01:01	Confirmed	C*07:02:13	Unconfirmed	C*07:18	Confirmed	C*07:65	Confirmed
C*07:01:01:02	Unconfirmed	C*07:02:14	Unconfirmed	C*07:19	Confirmed	C*07:66	Confirmed
C*07:01:02	Confirmed	C*07:02:15	Unconfirmed	C*07:20	Confirmed	C*07:67	Confirmed
C*07:01:03	Unconfirmed	C*07:02:16	Confirmed	C*07:21	Unconfirmed	C*07:68	Confirmed
C*07:01:04	Unconfirmed	C*07:02:17	Confirmed	C*07:22	Confirmed	C*07:69	Confirmed
C*07:01:05	Confirmed	C*07:02:18	Confirmed	C*07:23	Unconfirmed	C*07:70	Confirmed
C*07:01:06	Unconfirmed	C*07:02:19	Unconfirmed	C*07:24	Unconfirmed	C*07:71	Unconfirmed
C*07:01:07	Confirmed	C*07:02:20	Confirmed	C*07:25	Unconfirmed	C*07:72	Confirmed
C*07:01:08	Confirmed	C*07:02:21	Unconfirmed	C*07:26	Confirmed	C*07:73	Confirmed
C*07:01:09	Confirmed	C*07:02:22	Unconfirmed	C*07:27:01	Unconfirmed	C*07:74	Unconfirmed
C*07:01:10	Confirmed	C*07:02:23	Unconfirmed	C*07:27:02	Confirmed	C*07:75	Confirmed
C*07:01:11	Unconfirmed	C*07:02:24	Confirmed	C*07:28	Confirmed	C*07:76	Confirmed
C*07:01:12	Unconfirmed	C*07:02:25	Unconfirmed	C*07:29	Unconfirmed	C*07:77	Unconfirmed
C*07:01:13	Unconfirmed	C*07:02:26	Unconfirmed	C*07:30	Unconfirmed	C*07:78	Unconfirmed
C*07:01:14	Unconfirmed	C*07:02:27	Unconfirmed	C*07:31:01	Confirmed	C*07:79	Confirmed
C*07:01:15	Confirmed	C*07:02:28	Unconfirmed	C*07:31:02	Unconfirmed	C*07:80	Confirmed
C*07:01:16	Unconfirmed	C*07:02:29	Unconfirmed	C*07:32N	Confirmed	C*07:81	Unconfirmed
C*07:01:17	Unconfirmed	C*07:02:30	Unconfirmed	C*07:33N	Confirmed	C*07:82	Unconfirmed
C*07:01:18	Confirmed	C*07:02:31	Unconfirmed	C*07:35	Confirmed	C*07:83	Confirmed
C*07:01:19	Unconfirmed	C*07:02:32	Confirmed	C*07:36	Confirmed	C*07:84	Unconfirmed
C*07:01:20	Unconfirmed	C*07:02:33	Unconfirmed	C*07:37	Unconfirmed	C*07:85	Confirmed
C*07:01:21	Unconfirmed	C*07:02:34	Unconfirmed	C*07:38:01	Unconfirmed	C*07:86	Unconfirmed
C*07:01:22	Unconfirmed	C*07:02:35	Unconfirmed	C*07:38:02	Unconfirmed	C*07:87	Unconfirmed
C*07:01:23	Unconfirmed	C*07:02:36	Unconfirmed	C*07:39	Confirmed	C*07:88	Confirmed
C*07:01:24	Unconfirmed	C*07:02:37	Unconfirmed	C*07:40	Confirmed	C*07:89	Confirmed
C*07:01:25	Unconfirmed	C*07:02:38	Unconfirmed	C*07:41	Unconfirmed	C*07:90	Confirmed
C*07:01:26	Unconfirmed	C*07:02:39	Unconfirmed	C*07:42	Unconfirmed	C*07:91	Confirmed
C*07:01:27	Unconfirmed	C*07:03	Unconfirmed	C*07:43	Confirmed	C*07:92	Unconfirmed
C*07:01:28	Unconfirmed	C*07:04:01	Confirmed	C*07:44	Unconfirmed	C*07:93	Confirmed
C*07:01:29	Unconfirmed	C*07:04:02	Unconfirmed	C*07:45	Confirmed	C*07:94	Unconfirmed
C*07:01:30	Confirmed	C*07:04:03	Unconfirmed	C*07:46	Confirmed	C*07:95	Confirmed
C*07:01:31	Unconfirmed	C*07:04:04	Unconfirmed	C*07:47	Unconfirmed	C*07:96:01	Confirmed
C*07:01:32	Unconfirmed	C*07:04:05	Unconfirmed	C*07:48	Confirmed	C*07:96:02	Unconfirmed
C*07:01:33	Unconfirmed	C*07:04:06	Confirmed	C*07:49	Confirmed	C*07:97	Confirmed
C*07:02:01:01	Confirmed	C*07:04:07	Unconfirmed	C*07:50	Unconfirmed	C*07:98N	Unconfirmed
C*07:02:01:02	Unconfirmed	C*07:04:08	Unconfirmed	C*07:51	Confirmed	C*07:99	Unconfirmed
C*07:02:01:03	Confirmed	C*07:05	Confirmed	C*07:52	Unconfirmed	C*07:100	Confirmed
C*07:02:01:04	Unconfirmed	C*07:06	Confirmed	C*07:53	Unconfirmed	C*07:101	Confirmed
C*07:02:01:05	Unconfirmed	C*07:07	Unconfirmed	C*07:54	Confirmed	C*07:102	Unconfirmed
C*07:02:02	Unconfirmed	C*07:08	Unconfirmed	C*07:55N	Confirmed	C*07:103	Unconfirmed
C*07:02:03	Unconfirmed	C*07:09	Unconfirmed	C*07:56:01	Unconfirmed	C*07:104N	Confirmed
C*07:02:04	Confirmed	C*07:10	Confirmed	C*07:56:02	Confirmed	C*07:105	Unconfirmed
C*07:02:05	Unconfirmed	C*07:11	Unconfirmed	C*07:57	Unconfirmed	C*07:106	Confirmed
C*07:02:06	Confirmed	C*07:12	Confirmed	C*07:58	Unconfirmed	C*07:107	Unconfirmed
C*07:02:07	Confirmed	C*07:13	Confirmed	C*07:59	Confirmed	C*07:108	Confirmed
C*07:02:08	Confirmed	C*07:14	Unconfirmed	C*07:60	Confirmed	C*07:109	Confirmed
C*07:02:09	Unconfirmed	C*07:15	Confirmed	C*07:61N	Confirmed	C*07:110	Unconfirmed
C*07:02:10	Confirmed	C*07:16	Confirmed	C*07:62	Unconfirmed	C*07:111	Unconfirmed
C*07:02:11	Confirmed	C*07:17:01	Confirmed	C*07:63	Unconfirmed	C*07:112	Confirmed
C*07:02:12	Unconfirmed	C*07:17:02	Unconfirmed	C*07:64	Unconfirmed	C*07:113	Unconfirmed

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Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
C*07:114	Unconfirmed	C*07:162	Unconfirmed	C*07:211	Unconfirmed	C*07:261	Unconfirmed
C*07:115	Unconfirmed	C*07:163	Unconfirmed	C*07:212	Confirmed	C*07:262	Unconfirmed
C*07:116	Unconfirmed	C*07:164N	Unconfirmed	C*07:213	Unconfirmed	C*07:263	Unconfirmed
C*07:117	Confirmed	C*07:165	Confirmed	C*07:214	Unconfirmed	C*07:264N	Unconfirmed
C*07:118	Confirmed	C*07:166	Unconfirmed	C*07:215	Unconfirmed	C*07:265	Unconfirmed
C*07:119	Confirmed	C*07:167	Unconfirmed	C*07:216	Unconfirmed	C*07:266	Unconfirmed
C*07:120	Confirmed	C*07:168	Unconfirmed	C*07:217	Unconfirmed	C*07:267	Unconfirmed
C*07:121Q	Confirmed	C*07:169	Unconfirmed	C*07:218	Confirmed	C*07:268	Unconfirmed
C*07:122	Confirmed	C*07:170	Unconfirmed	C*07:219	Unconfirmed	C*07:269	Unconfirmed
C*07:123	Confirmed	C*07:171	Confirmed	C*07:220	Unconfirmed	C*07:270	Unconfirmed
C*07:124	Confirmed	C*07:172	Confirmed	C*07:221	Unconfirmed	C*07:271	Unconfirmed
C*07:125	Confirmed	C*07:173	Confirmed	C*07:222	Unconfirmed	C*07:272	Unconfirmed
C*07:126	Confirmed	C*07:174	Unconfirmed	C*07:223	Unconfirmed	C*07:273	Unconfirmed
C*07:127	Confirmed	C*07:175	Unconfirmed	C*07:224	Confirmed	C*07:274	Unconfirmed
C*07:128	Unconfirmed	C*07:176	Confirmed	C*07:225	Unconfirmed	C*07:275	Unconfirmed
C*07:129	Confirmed	C*07:177	Unconfirmed	C*07:226	Unconfirmed	C*07:276	Unconfirmed
C*07:130	Confirmed	C*07:178	Unconfirmed	C*07:227N	Unconfirmed	C*07:277	Unconfirmed
C*07:131	Unconfirmed	C*07:179	Confirmed	C*07:228	Unconfirmed	C*07:278	Unconfirmed
C*07:132	Confirmed	C*07:180	Confirmed	C*07:229	Unconfirmed	C*07:279	Confirmed
C*07:133	Unconfirmed	C*07:181	Unconfirmed	C*07:230	Unconfirmed	C*07:280	Unconfirmed
C*07:134	Unconfirmed	C*07:182	Unconfirmed	C*07:231	Unconfirmed	C*07:281	Unconfirmed
C*07:135	Unconfirmed	C*07:183	Unconfirmed	C*07:232	Unconfirmed	C*07:282	Unconfirmed
C*07:136	Unconfirmed	C*07:184	Confirmed	C*07:233	Unconfirmed	C*07:283	Unconfirmed
C*07:137:01	Unconfirmed	C*07:185	Unconfirmed	C*07:234	Unconfirmed	C*07:284	Unconfirmed
C*07:137:02	Confirmed	C*07:186	Confirmed	C*07:235	Unconfirmed	C*07:285	Confirmed
C*07:138	Unconfirmed	C*07:187	Unconfirmed	C*07:236	Unconfirmed	C*07:286	Unconfirmed
C*07:139	Unconfirmed	C*07:188	Unconfirmed	C*07:237	Unconfirmed	C*07:287	Unconfirmed
C*07:140	Confirmed	C*07:189	Unconfirmed	C*07:238	Confirmed	C*07:288	Unconfirmed
C*07:141:01	Confirmed	C*07:190	Unconfirmed	C*07:239	Unconfirmed	C*07:289	Unconfirmed
C*07:141:02	Confirmed	C*07:191N	Unconfirmed	C*07:240	Unconfirmed	C*07:290	Unconfirmed
C*07:142	Unconfirmed	C*07:192	Confirmed	C*07:241	Unconfirmed	C*07:291	Unconfirmed
C*07:143	Confirmed	C*07:193	Unconfirmed	C*07:242	Unconfirmed	C*07:292	Unconfirmed
C*07:144	Unconfirmed	C*07:194	Unconfirmed	C*07:243	Confirmed	C*07:293	Unconfirmed
C*07:145	Confirmed	C*07:195	Unconfirmed	C*07:244	Unconfirmed	C*07:294	Unconfirmed
C*07:146	Unconfirmed	C*07:196	Confirmed	C*07:245	Unconfirmed	C*07:296	Unconfirmed
C*07:147	Confirmed	C*07:197	Unconfirmed	C*07:246	Unconfirmed	C*07:297	Unconfirmed
C*07:148	Confirmed	C*07:198N	Unconfirmed	C*07:247	Unconfirmed	C*07:298	Unconfirmed
C*07:149	Confirmed	C*07:199:01	Unconfirmed	C*07:248	Unconfirmed	C*07:299	Unconfirmed
C*07:150Q	Unconfirmed	C*07:199:02	Unconfirmed	C*07:249	Unconfirmed		
C*07:151	Confirmed	C*07:200	Unconfirmed	C*07:250	Unconfirmed		
C*07:152N	Unconfirmed	C*07:201	Unconfirmed	C*07:251	Unconfirmed		
C*07:153	Confirmed	C*07:202	Confirmed	C*07:252	Confirmed		
C*07:154	Confirmed	C*07:203	Confirmed	C*07:253	Unconfirmed		
C*07:155	Confirmed	C*07:204	Unconfirmed	C*07:254	Unconfirmed		
C*07:156	Unconfirmed	C*07:205	Confirmed	C*07:255	Unconfirmed		
C*07:157	Unconfirmed	C*07:206	Unconfirmed	C*07:256	Unconfirmed		
C*07:158	Unconfirmed	C*07:207	Confirmed	C*07:257	Unconfirmed		
C*07:159	Unconfirmed	C*07:208	Unconfirmed	C*07:258	Unconfirmed		
C*07:160	Unconfirmed	C*07:209	Unconfirmed	C*07:259	Unconfirmed		
C*07:161	Unconfirmed	C*07:210	Unconfirmed	C*07:260	Unconfirmed		

¹ Allele 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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RESOLUTION IN HOMO- AND HETEROZYGOTES

A total of 398 alleles generate 171 amplification patterns that can be combined in 14706 homozygous and heterozygous combinations. 4826 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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SPECIFICITY TABLE

HLA-C*07 SSP subtyping

Specificities and sizes of the PCR products of the 74 primer mixes used for HLA-C*07 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-C*07 alleles ³	Other amplified HLA-Class I alleles ⁴
1^{8,9}	245 bp, 425 bp	800 bp	*07:01:01:01-07:33N, 07:35-07:294, 07:296-07:299	
2	290 bp	800 bp	*07:01:01:01-07:01:04, 07:01:06-07:01:33, 07:05-07:07, 07:09, 07:14, 07:16, 07:18, 07:20-07:22, 07:24, 07:26-07:28, 07:30-07:31:02, 07:35-07:36, 07:40, 07:43-07:44, 07:52-07:53, 07:55N, 07:58-07:60, 07:65, 07:69-07:71, 07:73, 07:77-07:78, 07:81-07:83, 07:85-07:86, 07:89, 07:91-07:96:02, 07:98N, 07:103-07:104N, 07:106, 07:109, 07:111, 07:113, 07:115-07:116, 07:118-07:120, 07:122, 07:124, 07:128-07:129, 07:131-07:132, 07:134, 07:140-07:141:02, 07:148, 07:150Q-07:151, 07:153, 07:156, 07:162-07:166, 07:170, 07:173, 07:176, 07:179-07:180, 07:182, 07:184, 07:188-07:191N, 07:196-07:197, 07:200-07:201, 07:203-07:207, 07:210, 07:212, 07:214-07:215, 07:219, 07:222-07:225, 07:227N-07:228, 07:231, 07:235-07:237, 07:246-07:249, 07:253-07:257, 07:263, 07:266-07:269, 07:276-07:282, 07:292-07:293, 07:296-07:299	*03:04:19, 03:113, 05:01:17, 05:09:02, 05:17, 06:02:23, 08:15:02, 12:03:10, 15:65, B*35:08:04
3⁵	110 bp	800 bp	*07:01:01:01-07:01:24, 07:01:26-07:01:33, 07:06, 07:09, 07:18-07:22, 07:24, 07:26, 07:28, 07:30, 07:35-07:36, 07:40, 07:44, 07:52-07:53, 07:55N, 07:57-07:59, 07:65, 07:69-07:71, 07:73, 07:77-07:78, 07:81-07:83, 07:85-07:86, 07:89,	*04:112, 06:44, 15:62, 18:05

101.615-24/04 – including *Taq* pol., IFU-01
 101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **42S**

Lot-specific information

			07:91-07:96:02, 07:98N, 07:103-07:104N, 07:106, 07:108, 07:110-07:113, 07:115-07:116, 07:118-07:120, 07:122, 07:124, 07:128-07:129, 07:131-07:132, 07:134, 07:140-07:141:02, 07:148, 07:150Q-07:151, 07:153, 07:156, 07:162-07:166, 07:170, 07:173, 07:176, 07:179-07:180, 07:182, 07:188-07:191N, 07:196-07:197, 07:200-07:201, 07:203-07:207, 07:210, 07:212, 07:214-07:215, 07:219, 07:222-07:225, 07:227N-07:228, 07:230-07:231, 07:235-07:237, 07:246-07:250, 07:253-07:257, 07:263, 07:266-07:269, 07:276-07:282, 07:293, 07:296-07:299	
4	185 bp	1070 bp	*07:02:01:01-07:02:39, 07:10, 07:13, 07:15, 07:19, 07:23, 07:25, 07:29, 07:32N-07:33N, 07:37-07:39, 07:42, 07:46-07:51, 07:54, 07:56:01-07:56:02, 07:61N-07:62, 07:64, 07:66-07:68, 07:72, 07:74-07:76, 07:79-07:80, 07:84, 07:87-07:88, 07:90, 07:97, 07:99-07:100, 07:102, 07:105, 07:107, 07:114, 07:117, 07:121Q, 07:123, 07:125-07:127, 07:130, 07:133, 07:135-07:138, 07:143-07:147, 07:149, 07:152N, 07:154-07:155, 07:157-07:161, 07:167-07:169, 07:172, 07:174-07:175, 07:178, 07:183, 07:185-07:187, 07:192-07:195, 07:198N, 07:202, 07:208-07:209, 07:211, 07:213, 07:216-07:218, 07:220-07:221, 07:226, 07:229, 07:232-07:234, 07:238-07:241, 07:243-07:245, 07:251-07:252, 07:259-07:262, 07:264N-07:265, 07:270-07:271, 07:273-07:275, 07:283-07:291	B*40:60
5^{5,10}	70 bp, 145 bp, 245 bp	800 bp	*07:03, 07:53, 07:57, 07:216	
6⁵	100 bp	1070 bp	*07:04:01-07:04:08, 07:11-07:12, 07:63, 07:68, 07:101, 07:139,	*05:62, B*44:148

101.615-24/04 – including *Taq* pol., IFU-01
 101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **42S**

Lot-specific information

		07:142, 07:181, 07:199:01- 07:199:02, 07:272		
7	190 bp	1070 bp	*07:05	B*27:36, B*48:21, B*48:26
8¹¹	285 bp, 505 bp	1070 bp	*07:06, 07:45	*02:57, 04:40, B*38:23, B*39:73
9^{6,12}	215 bp, 425 bp	800 bp	*07:07, 07:09, 07:33N, 07:49, 07:76, 07:210, 07:238, 07:247	*06:17, 18:01-18:06
10	185 bp	1070 bp	*07:08, 07:108	*04:58, B*40:100
11¹³	275 bp, 300 bp	800 bp	*07:10, 07:24, 07:43, 07:112, 07:184, 07:196, 07:218	*03:04:19, 03:113, B*35:08:04, B*37:04:02
12	130 bp	1070 bp	*07:12, 07:41	*04:120, 05:01:01:01- 05:01:26, 05:03- 05:08, 05:10-05:16, 05:18:01-05:22:02, 05:24-05:48N, 05:50- 05:51Q, 05:53-05:61, 05:63-05:87, 08:01:01-08:06, 08:08-08:14, 08:16:01-08:46, 08:48-08:50, 08:52N- 08:63, 08:65-08:71, 08:73-08:74, A*29:10, B*14:32, B*18:83, B*44:148
13^{5,7}	90 bp	1070 bp	*07:11, 07:56:01-07:56:02, 07:60, 07:79, 07:109	*03:69, 04:27, 04:52, 06:53:01-06:53:02, 12:58
14	240 bp	800 bp	*07:13, 07:28, 07:289	*04:01:43, 05:01:17, 05:09:02, 05:17, 08:15:02, B*37:04:02
15^{5,14}	80 bp, 290 bp, 460 bp	1070 bp	*07:14, 07:50, 07:89	
16	535 bp	1070 bp	*07:02:01:01-07:02:39, 07:04:01- 07:05, 07:08, 07:10-07:11, 07:13-07:15, 07:23, 07:25, 07:27:01-07:27:02, 07:29, 07:31:01-07:33N, 07:37-07:39, 07:42-07:43, 07:45-07:51, 07:54, 07:56:01-07:56:02, 07:61N- 07:64, 07:66-07:68, 07:72, 07:74-07:76, 07:79-07:80, 07:84, 07:87-07:88, 07:90, 07:97, 07:99-07:102, 07:105, 07:107,	*01:60, 03:14, 03:162, 04:58, 05:23, 05:62, 08:07, 08:47, 12:14:01-12:14:02, 14:17, 17:01:01:01- 17:19, B*46:06

101.615-24/04 – including *Taq* pol., IFU-01
 101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **42S**

Lot-specific information

			07:114, 07:117, 07:121Q, 07:123, 07:125-07:127, 07:130, 07:133, 07:135-07:139, 07:142- 07:147, 07:149, 07:152N, 07:154-07:155, 07:157-07:161, 07:167-07:169, 07:172, 07:174- 07:175, 07:177-07:178, 07:181, 07:183-07:187, 07:192-07:195, 07:198N-07:199:02, 07:202, 07:208-07:209, 07:211, 07:213, 07:216-07:218, 07:220-07:221, 07:226, 07:229, 07:232-07:234, 07:238-07:241, 07:243-07:245, 07:251-07:252, 07:258-07:262, 07:264N-07:265, 07:270-07:275, 07:283-07:291, 07:294	
17⁷	130 bp	1070 bp	*07:04:01-07:04:08, 07:11, 07:63, 07:68, 07:101, 07:139, 07:142, 07:181, 07:199:01- 07:199:02, 07:260, 07:272	*05:23, 05:62, 08:07, 08:47
18^{5,15}	120 bp, 230 bp	800 bp	*07:15, 07:52, 07:243	*05:03, B*07:77, B*40:60
19^{6,16}	220 bp, 465 bp	800 bp	*07:07, 07:16, 07:26, 07:51, 07:92, 07:96:01-07:96:02, 07:177, 07:181	
20^{7,8,17}	145 bp, 170 bp, 195 bp	1070 bp	*07:03, 07:17:01-07:17:02, 07:44, 07:48, 07:81, 07:140- 07:141:02, 07:168	*03:04:19, 03:113, 04:01:43, 05:01:17, 05:09:02, 05:17, 06:02:23, 08:15:02, 12:03:10, A*30:01:03, A*33:03:09, B*35:08:04, B*37:04:02
21^{5,18}	100 bp, 225 bp	800 bp	*07:06, 07:18-07:19, 07:54	
22¹⁹	205 bp, 250 bp,	800 bp	*07:20, 07:84, 07:96:01- 07:96:02, 07:127, 07:263	*02:49, 03:15, 03:32, 03:45, 03:60, 03:136, 04:03, 04:06, 04:16, 04:80, 06:70, 15:25, 15:62, A*01:110, A*11:135
23^{7,20}	155 bp, 185 bp	1070 bp	*07:21, 07:23	
24⁷	135 bp	1070 bp	*07:25	A*24:02:62, A*68:01:12

101.615-24/04 – including *Taq* pol., IFU-01
 101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **42S**

Lot-specific information

25 ^{5,21}	105 bp, 150 bp	1070 bp	*07:30, 07:46	B*56:08^W, B*56:14
26 ^{5,22}	100 bp, 250 bp, 300 bp	1070 bp	*07:31:01-07:32N, 07:55N, 07:177	*06:02:23, 12:03:10
27 ⁵	125 bp	1070 bp	*07:37, 07:69, 07:176	*04:01:43, 05:01:17, 05:09:02, 08:15:02, B*35:08:04
28 ²³	175 bp, 260 bp	800 bp	*07:35, 07:44, 07:47	
29	255 bp	1070 bp	*07:36, 07:42	
30 ^{5,7,24}	60 bp, 260 bp	1070 bp	*07:75, 07:227N, 07:254	*04:66
31	415 bp	1070 bp	*07:39-07:40, 07:177, 07:210 ^W , 07:238 ^W	
32 ²⁵	245 bp, 285 bp	1070 bp	*07:07, 07:09, 07:49, 07:60, 07:76, 07:79, 07:210, 07:238, 07:247	*02:14, 03:39, 03:67, 04:42, 05:43, 06:02:01:01-06:02:01:02, 06:02:03-06:02:05, 06:02:07-06:02:11, 06:02:13-06:02:25, 06:04-06:10, 06:12-06:51, 06:53:01-06:75, 06:78-06:96, 15:23, 15:63, 18:01-18:06, B*08:17, B*08:39, B*08:47
33 ²⁶	205 bp, 230 bp	1070 bp	*07:66, 07:82	
34 ^{5,27}	105 bp, 270 bp	1070 bp	*07:67, 07:70	
35 ^{6,28}	320 bp, 360 bp	1070 bp	*07:71-07:72	
36 ^{6,29}	185 bp, 265 bp	800 bp	*07:20, 07:64, 07:73, 07:92, 07:96:01-07:96:02, 07:107, 07:172, 07:224	*06:22, 16:31, 18:04, B*15:193
37 ^{7,30}	245 bp, 275 bp	1070 bp	*07:38:01-07:38:02, 07:63, 07:68, 07:121Q, 07:260	*08:38, B*07:77, B*40:60
38 ^{6,7,9,31}	135 bp, 195 bp	1070 bp	*07:58, 07:65	
39 ^{5,32}	100 bp, 255 bp	800 bp	*07:59, 07:74	
40 ^{5,7,33}	120 bp, 205 bp, 440 bp	1070 bp	*07:07, 07:09, 07:62, 07:76, 07:78, 07:235	*06:17, 18:01-18:06
41 ³⁴	140 bp, 255 bp	1070 bp	*07:88, 07:91	
42 ^{5,35}	100 bp, 205 bp, 250 bp	1070 bp	*07:15, 07:77, 07:93, 07:123, 07:173, 07:207, 07:294	B*35:08:04
43 ^{5,6,36}	105 bp, 140 bp, 175 bp	800 bp	*07:80, 07:94, 07:99, 07:183	
44 ^{6,7,37}	165 bp, 195 bp	1070 bp	*07:65, 07:77, 07:98N	
45 ^{7,38}	240 bp, 475 bp	1070 bp	*07:95, 07:245	*04:34, 04:122, B*35:178, B*73:01-73:02

101.615-24/04 – including *Taq* pol., IFU-01
 101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **42S**

Lot-specific information

46 ³⁹	200 bp, 315 bp, 350 bp, 420 bp	1070 bp	*07:83, 07:90, 07:152N, 07:202	
47 ⁴⁰	200 bp, 420 bp, 455 bp	1070 bp	*07:86, 07:97, 07:152N	
48 ^{7,41}	155 bp, 220 bp, 400 bp	1070 bp	*07:85, 07:87, 07:122	
49 ⁴²	155 bp, 220 bp	800 bp	*07:100-07:101, 07:148, 07:161	*04:129, 05:42, 05:46, 06:67, 08:05, 08:21, 17:05
50 ^{5,43}	105 bp, 170 bp, 425 bp	1070 bp	*07:104N, 07:119, 07:124, 07:155	B*07:87, B*27:55
51 ^{5,44}	65 bp, 235 bp, 285 bp	1070 bp	*07:117, 07:121Q, 07:126	
52 ^{5,45}	65 bp, 205 bp, 280 bp	1070 bp	*07:106, 07:118, 07:203	
53 ^{5,46}	110 bp, 155 bp	1070 bp	*07:122, 07:140, 07:151, 07:154	B*37:04:02
54 ^{5,47}	120 bp, 235 bp, 340 bp, 370 bp	1070 bp	*07:64, 07:125, 07:129, 07:153	B*51:142
55 ⁴⁸	150 bp, 210 bp, 290 bp	1070 bp	*07:132, 07:179, 07:252	*06:07
56 ⁴⁹	210 bp, 255 bp	1070 bp	*07:123, 07:143, 07:150Q, 07:173, 07:294	B*35:08:04
57 ^{5,50}	70 bp, 175 bp	800 bp	*07:01:25, 07:130	*05:01:17, 05:09:02, 05:17, 08:15:02
58 ^{5,51}	80 bp, 450 bp	1070 bp	*07:137:01-07:137:02, 07:164N, 07:186, 07:212, 07:265	*03:162
59 ⁶	200 bp	1070 bp	*07:81, 07:145, 07:168, 07:191N	B*35:08:04, B*37:04:02
60 ⁵²	130 bp, 305 bp, 370 bp	1070 bp	*07:147, 07:165, 07:180, 07:241, 07:265	*03:04:19, 03:113, 04:01:43, 05:01:17, 05:09:02, 06:02:23, 08:15:02, 12:03:10
61	245 bp	1070 bp	*07:120	
62 ⁵³	200 bp, 280 bp	1070 bp	*07:84, 07:106, 07:205	
63 ⁵⁴	275 bp, 320 bp	800 bp	*07:24, 07:198N, 07:202, 07:218	
64 ^{7,55}	135 bp, 225 bp	1070 bp	*07:69, 07:192	
65	155 bp	1070 bp	*07:264N	
66	225 bp	1070 bp	*07:279	
67	180 bp	1070 bp	*07:285	
68	230 bp	1070 bp	*07:149	
69	185 bp	1070 bp	*07:171	
70	405 bp	1070 bp	*07:61N	

101.615-24/04 – including *Taq* pol., IFU-01
 101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **42S**

Lot-specific information

71	240 bp	1070 bp	*07:29, 07:177, 07:184, 07:248	*03:04:19, 03:113
72⁵	120 bp	1070 bp	*07:22, 07:137:01-07:138	*06:02:23, 12:03:10, A*33:03:09, A*68:01:12
73	185 bp	1070 bp	*07:107, 07:224	*06:22, 16:31, B*15:193
74⁵⁶	215 bp, 355 bp	1070 bp	*07:33N, 07:80	

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-C*07 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-C*07 subtyping.

In addition, wells number 2, 3, 5, 9, 11, 14, 18, 19, 21, 22, 28, 36, 39, 43, 49, 57 and 63 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 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. We assume that unknown sequences in these regions are conserved within allelic groups.

⁴Due to the sharing of sequence motifs between HLA-C alleles non-HLA-C*07 alleles will be amplified by primer mixes 2, 3, 6, 8 to 14, 16 to 18, 20, 22, 26, 27, 30, 32, 36, 37, 40, 45, 49, 55, 57, 58, 60, 61 and 71 to 73. In addition, the A*01:110 and A*11:135 alleles will be amplified by primer mix 22, the A*24:02:62 allele will be amplified by primer mix 24, the A*29:10, B*14:32 and B*18:83 alleles will be amplified by primer mix 12, the A*30:01:03 allele will be amplified by primer mix 20, the A*33:03:09 allele will be amplified by primer mixes 20 and 72, the A*68:01:12 allele will be amplified by primer mix 24 and 72, the B*07:77 allele will be amplified by primer mixes 18 and 37, the B*07:87 and B*27:55 will be amplified by primer mix 50, the B*08:17, B*08:39 and B*08:47 alleles by primer mix 32, the B*15:193 allele by primer mixes 35 and 73, the B*27:36, B*48:21 and B*48:26 alleles by primer mix 7, the B*35:08:04 allele by primer mixes 2, 11, 20, 27, 42, 56 and 59, the B*35:178 and B*73:01-73:02 alleles will be amplified by primer mix 45, the B*37:04:02 allele by primer mixes 11, 14, 20, 53 and 59, the B*38:23 and B*39:73 alleles by primer mix 8, the B*40:60 allele by primer mixes 4, 18 and 37, the B*40:100 allele by primer mix 10, the B*44:148 allele by primer mixes 6 and 12, the B*46:06 allele by primer mix 16, the B*51:142 allele will be amplified by primer mix 54 and the B*56:08 and B*56:14 alleles will be amplified by primer mix 25.

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: 42S**Lot-specific information**

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

⁶Primer mixes 9, 19, 35, 36, 38, 43, 44 and 59 have a tendency to giving rise to primer oligomer formation.

⁷Primer mixes 13, 17, 20, 23, 24, 30, 37, 38, 40, 44, 45, 48 and 64 may have tendencies of unspecific amplifications, most pronounced in primer mix 24.

⁸Primer mixes 1 and 20 may give rise to a lower yield of HLA-specific PCR product than the other C*07 primer mixes.

⁹Primer mix 1: Specific PCR fragment of 245 bp in the C*07:07, 07:09, 07:49, 07:76, 07:115, 07:210, 07:223, 07:238, 07:247 and 07:295 alleles. Specific PCR fragment of 425 bp in the C*07:02:21, 07:41 and 07:166 alleles. Specific PCR fragment of 245 and 425 bp in the C*07:01:01:01-07:02:20, 07:02:22-07:06, 07:08, 07:10-07:33N, *07:35-07:40, 07:42-07:48, 07:50-07:75, 07:77-07:114, 07:116-07:165, 07:167-07:209 and 07:211-07:222, 07:224-07:237, 07:239-07:246, 07:248-07:294 and 07:296-07:299 alleles.

¹⁰Primer mix 5: Specific PCR fragment of 70 bp in the C*07:53 and 07:216 alleles. Specific PCR fragment of 145 bp in the C*07:57 allele. Specific PCR fragment of 245 bp in the C*07:03 allele.

¹¹Primer mix 8: Specific PCR fragment of 285 bp in the C*07:45 and the C*02:57 and 04:40 and in the B*38:23 and B*39:73 alleles. Specific PCR fragment of 505 bp in the C*07:06 allele.

¹²Primer mix 9: Specific PCR fragment of 215 bp in the C*07:33N allele. Specific PCR fragment of 425 bp in the C*07:07, 07:09, 07:49, 07:76, 07:210, 07:238 and 07:247 and the C*06:17 and 18:01-18:06 alleles.

¹³Primer mix 11: Specific PCR fragment of 275 bp in the C*07:24 and 07:218 alleles. Specific PCR fragment of 300 bp in the C*07:10, 07:43, 07:112, 07:184 and 07:196 and the C*03:04:19 and 03:113 and in the B*35:08:04 and B*37:04:02 alleles.

¹⁴Primer mix 15: Specific PCR fragment of 80 bp in the C* 07:50 allele. Specific PCR fragment of 290 bp in the C*07:14 allele. Specific PCR fragment of 460 bp in the C*07:89 allele.

¹⁵Primer mix 18: Specific PCR fragment of 120 bp in the C*07:52 and 07:243 and the C*05:03 alleles. Specific PCR fragment of 230 bp in the C*07:15 and in the B*07:77 and B*40:60 alleles.

¹⁶Primer mix 19: Specific PCR fragment of 220 bp in the C*07:26, 07:92 and 07:96:01-07:96:02 alleles. Specific PCR fragment of 465 bp in the C*07:07, 07:16, 07:51, 07:177 and 07:181 alleles.

¹⁷Primer mix 20: Specific PCR fragment of 145 bp in the C*07:03, 07:17:01-07:17:02 and 07:140-07:141:02 and the C*03:04:19, 03:113, 04:01:43, 05:01:17, 05:09:02, 05:17, 06:02:23, 08:15:02 and 12:03:10 and in the A*30:01:03 and A*33:03:09 alleles. Specific PCR fragment of 170 bp in the 07:44 and 07:48 alleles. Specific PCR fragment of 195 bp in the C*07:81 and 07:168 alleles. Specific PCR fragment of 145 bp and 195 bp in the B*35:08:04 and B*37:04:02 alleles.

¹⁸Primer mix 21: Specific PCR fragment of 100 bp in the C*07:54 allele. Specific PCR fragment of 225 bp in the C*07:06, 07:18 and 07:19 alleles.

¹⁹Primer mix 22: Specific PCR fragment of 205 bp in the C*07:84 allele. Specific PCR fragment of 250 bp in the C*07:20, 07:96:01-07:96:02, 07:127 and 07:263 and in the C*02:49, 03:15, 03:32, 03:45, 03:60, 03:136, 04:03, 04:06, 04:16, 04:80, 06:70, 15:25 and 15:62 and in the A*01:110 and A*11:135 alleles.

²⁰Primer mix 23: Specific PCR fragment of 155 bp in the C*07:23 allele. Specific PCR fragment of 185 bp in the C*07:21 allele.

²¹Primer mix 25: Specific PCR fragment of 105 bp in the C*07:46 and in the B*56:06^w and B*56:14 alleles. Specific PCR fragment of 150 bp in the C*07:30 allele.

²²Primer mix 26: Specific PCR fragment of 100 bp in the C*07:32N allele. Specific PCR fragment of 250 bp in the C*07:55N allele. Specific PCR fragment of 300 bp in the C*07:31:01-07:31:02 and 07:177 and the C*06:02:23 and 12:03:10 alleles.

²³Primer mix 28: Specific PCR fragment of 175 bp in the C*07:44 allele. Specific PCR fragment of 260 bp in the C*07:35 and 07:47 alleles.

²⁴Primer mix 30: Specific PCR fragment of 60 bp in the C*07:75 and 07:254 alleles. Specific PCR fragment of 260 bp in the C*07:227N and the C*04:66 alleles.

²⁵Primer mix 32: Specific PCR fragment of 245 bp in the C*07:07, 07:09, 07:49, 07:76, 07:210, 07:238 and 07:247 and the C*02:14, 04:42, 05:43, 06:02:01:01-06:02:01:02, 06:02:03-06:02:05, 06:02:07-06:02:11, 06:02:13-06:02:25, 06:04-06:10, 06:12-06:51, 06:53:01-06:75, 06:78-06:96, 15:23, 15:63 and 18:01-18:06 and in the B*08:17, B*08:47 alleles. Specific PCR fragment of 285 bp in the C*07:60 and 07:79 and the C*03:39 and 03:67 and the B*08:39 alleles.

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: 42S**Lot-specific information**

²⁶Primer mix 33: Specific PCR fragment of 205 bp in the C*07:66 allele. Specific PCR fragment of 230 bp in the C*07:82 allele.

²⁷Primer mix 34: Specific PCR fragment of 105 bp in the C*07:67 allele. Specific PCR fragment of 270 bp in the C*07:70 allele.

²⁸Primer mix 35: Specific PCR fragment of 320 bp in the C*07:72 allele. Specific PCR fragment of 360 bp in the C*07:71 allele.

²⁹Primer mix 36: Specific PCR fragment of 185 bp in the C*07:107 and 07:224 and in the C*06:22 and 16:31 and the B*15:193 alleles. Specific PCR fragment of 265 bp in the C*07:20, 07:64, 07:73, 07:92, 07:96:01-07:96:02 and 07:172 and the C*18:04 alleles.

³⁰Primer mix 37: Specific PCR fragment of 245 bp in the C*07:63 and 07:121Q alleles. Specific PCR fragment of 275 bp in the C*07:38:01-07:38:02, 07:68 and 07:260 and the C*08:38 and the B*07:77 and B*40:60 alleles.

³¹Primer mix 38: Specific PCR fragment of 135 bp in the C*07:58 allele. Specific PCR fragment of 195 bp in the C*07:65 allele.

³²Primer mix 39: Specific PCR fragment of 100 bp in the C*07:74 allele. Specific PCR fragment of 255 bp in the C*07:59 allele.

³³Primer mix 40: Specific PCR fragment of 120 bp in the C*07:235 allele. Specific PCR fragment of 205 bp in the C*07:62 allele. Specific PCR fragment of 440 bp in the C*07:07, 07:09, 07:76 and 07:78 and in the C*06:17 and 18:01-18:06 alleles.

³⁴Primer mix 41: Specific PCR fragment of 140 bp in the C*07:91 allele. Specific PCR fragment of 255 bp in the C*07:88 allele.

³⁵Primer mix 42: Specific PCR fragment of 100 bp in the C*07:15 and 07:207 alleles. Specific PCR fragment of 205 bp in the C*07:77 and 07:93 alleles. Specific PCR fragment of 250 bp in the C*07:123, 07:173 and 07:294 and the B*35:08:04 alleles.

³⁶Primer mix 43: Specific PCR fragment of 105 bp in the C*07:94 and 07:183 alleles. Specific PCR fragment of 140 bp in the C*07:99 allele. Specific PCR fragment of 175 bp in the C*07:80 allele.

³⁷Primer mix 44: Specific PCR fragment of 165 bp in the C*07:98N allele. Specific PCR fragment of 195 bp in the C*07:65 and 07:77 alleles.

³⁸Primer mix 45: Specific PCR fragment of 240 bp in the C*07:245 allele. Specific PCR fragment of 475 bp in the C*07:95 and the C*04:34 and 04:122 and in the B*35:178 and B*73:01-73:02 alleles.

³⁹Primer mix 46: Specific PCR fragment of 200 bp in the C*07:83 allele. Specific PCR fragment of 315 bp in the C*07:202 allele. Specific PCR fragment of 350 bp in the C*07:90 allele. Specific PCR fragment of 420 bp in the C*07:152N allele.

⁴⁰Primer mix 47: Specific PCR fragment of 200 bp in the C*07:86 allele. Specific PCR fragment of 420 bp in the C*07:152N allele. Specific PCR fragment of 455 bp in the C*07:97 allele.

⁴¹Primer mix 48: Specific PCR fragment of 155 bp in the C*07:122 allele. Specific PCR fragment of 220 bp in the C*07:87 allele. Specific PCR fragment of 400 bp in the C*07:85 allele.

⁴²Primer mix 49: Specific PCR fragment of 155 bp in the C*07:101, 07:148 and 07:161 and the C*04:129, 05:42, 05:46, 06:67, 08:05, 08:21 and 17:05 alleles. Specific PCR fragment of 220 bp in the C*07:100 allele.

⁴³Primer mix 50: Specific PCR fragment of 105 bp in the C*07:104N allele. Specific PCR fragment of 170 bp in the C*07:119 and in the B*07:87 and B*27:55 alleles. Specific PCR fragment of 425 bp in the C*07:124 and 07:155 alleles.

⁴⁴Primer mix 51: Specific PCR fragment of 65 bp in the C*07:126 allele. Specific PCR fragment of 235 bp in the C*07:121Q allele. Specific PCR fragment of 285 bp in the C*07:117 allele.

⁴⁵Primer mix 52: Specific PCR fragment of 65 bp in the C*07:203 allele. Specific PCR fragment of 205 bp in the C*07:118 allele. Specific PCR fragment of 280 bp in the C*07:106 allele.

⁴⁶Primer mix 53: Specific PCR fragment of 110 bp in the C*07:140, 07:151 and 07:154 and in the B*37:04:02 alleles. Specific PCR fragment of 155 bp in the C*07:122 allele.

⁴⁷Primer mix 54: Specific PCR fragment of 120 bp in the C*07:153 and in the B*51:142 alleles. Specific PCR fragment of 235 bp in the C*07:64 allele. Specific PCR fragment of 340 bp in the C*07:125 allele. Specific PCR fragment of 370 bp in the C*07:129 allele.

⁴⁸Primer mix 55: Specific PCR fragment of 150 bp in the C*07:179 and the C*06:07 alleles. Specific PCR fragment of 210 bp in the C*07:252 allele. Specific PCR fragment of 290 bp in the C*07:132 allele.

⁴⁹Primer mix 56: Specific PCR fragment of 210 bp in the C*07:150Q allele. Specific PCR fragment of 255 bp in the C*07:123, 07:143, 07:173 and 07:294 and the B*35:08:04 alleles.

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Lot No.: 42S**Lot-specific information**

⁵⁰Primer mix 57: Specific PCR fragment of 70 bp in the C*07:01:25 allele. Specific PCR fragment of 175 bp in the C*07:130 and the C*05:01:17, 05:09:02, 05:17 and 08:15:02 alleles.

⁵¹Primer mix 58: Specific PCR fragment of 80 bp in the C*07:137:01-07:137:02, 07:186, 07:212 and 07:265 and the C*03:162 alleles. Specific PCR fragment of 450 bp in the C*07:164N allele.

⁵²Primer mix 60: Specific PCR fragment of 130 bp in the C*07:165, 07:241 and 07:265, and the C*03:04:19, 03:113, 04:01:43, 05:01:17, 05:09:02, 06:02:23, 08:15:02 and 12:03:10 alleles. Specific PCR fragment of 305 bp in the C*07:147 allele. Specific PCR fragment of 370 bp in the C*07:180 allele.

⁵³Primer mix 62: Specific PCR fragment of 200 bp in the C*07:84 and 07:205 alleles. Specific PCR fragment of 280 bp in the C *07:106 allele.

⁵⁴Primer mix 63: Specific PCR fragment of 275 bp in the C *07:24 and 07:218 alleles. Specific PCR fragment of 320 bp in the C*07:198N and 07:202 alleles.

⁵⁵Primer mix 64: Specific PCR fragment of 135 bp in the C*07:69 allele. Specific PCR fragment of 225 bp in the C *07:192 allele.

⁵⁶Primer mix 74: Specific PCR fragment of 215 bp in the C*07:33N allele. Specific PCR fragment of 355 bp in the C*07:80 allele.

‘w’, may be weakly amplified.

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Lot-specific information

INTERPRETATION TABLE		HLA-C*07 SSP subtyping		Amplification patterns of the C*07:01 to C*07:299 alleles		Well ¹⁸		Length of spec. PCR product(s)	Length of int. pos. control ¹	5'-primer(s) ²	3'-primer(s) ³		
Well No.	5'-primer(s) ²	3'-primer(s) ³	Well No.	5'-primer(s) ²	3'-primer(s) ³	Well No.	5'-primer(s) ²					3'-primer(s) ³	
37	5'-TTg ³	603	5'-CTT ³	601	5'-CgA ³	563	5'-CCT ³	388	5'-gTC ³	368	1070	275	245
38					5'-CT ³	618	5'-CCC ³	524	5'-gCT ³	464	1070	195	135
39					5'-CAT ³	853	5'-CTC ³	794	5'-CgT ³	125	800	255	100
40	5'-Cgg ³	563	5'-AgT ³	312	5'-gTA ³	79	5'-ACC ³	486	5'-Agg ³	47	1070	440	205
41					5'-CT ³	618	5'-CgA ³	520	5'-CgA ³	125	1070	255	140
42					5'-CT ³	618	5'-TCA ³	463	5'-ggC ³	409	1070	250	205
43					5'-gCC ³	613	5'-TgT ³	578	5'-TCg ³	97	800	175	140
44					5'-CT ³	618	5'-CTT ³	493	5'-TgT ³	463	1070	195	165
45					5'-CAT ³	853	5'-CCA ³	527	5'-ggA ³	341	1070	475	240
46	5'-CT ³	618	5'-TCA ³	295	5'-CAA ³	226	5'-ggT ³	190	5'-Agg ³	47	1070	420	350
47					5'-CT ³	618	5'-TCA ³	295	5'-Agg ³	47	1070	455	420
48					5'-CT ³	618	5'-gCC ³	275	5'-Agg ³	47	1070	400	220
49					5'-CT ³	618	5'-AgC ³	289	5'-ATC ³	439	1070	400	220
50					5'-CCA ³	488	5'-TCC ³	426	5'-TTT ³	440	800	220	155
51					5'-CAG ³	614	5'-gCT ³	394	5'-AgA ³	361	1070	425	170
52					5'-CTC ³	3 ^d	5'-CgT ³	341	5'-gTC ³	368	1070	285	235
53					5'-CT ³	618	5'-CT ³	618	5'-gTC ³	179	1070	280	205
54	5'-CCA ³	727	5'-gCTg ³	244	5'-gCT ³	218	5'-gAC ³	540	5'-CCg ³	503	1070	155	110
55					5'-CgT ³	341	5'-CAC ³	648	5'-Agg ³	47	1070	370	340
56					5'-CT ³	618	5'-CgT ³	341	5'-gAg ³	91	1070	290	210
57					5'-CT ³	618	5'-TCA ³	299	5'-ggC ³	397	1070	255	210
58	5'-CAG ³	559	5'-ggT ³	544	5'-TTT ³	327	5'-CAA ³	485	5'-AAT ³	270	800	175	70
59					5'-CT ³	618	5'-TCC ³	180	5'-Agg ³	47	1070	450	80
60					5'-CT ³	618	5'-TAA ³	246	5'-ACT ³	454	1070	200	
61					5'-CgT ³	341	5'-TgA ³	463	5'-Agg ³	47	1070	370	305
62					5'-CgT ³	341	5'-TCC ³	180	5'-Agg ³	47	1070	405	245
63	5'-CT ³	618	5'-TCA ³	202	5'-ggT ³	190	5'-CCC ³	355	5'-AAG ³	270	1070	280	200
64					5'-CAT ³	550	5'-AgC ³	289	5'-gCC ³	176	1070	320	275
65					5'-CTA ³	535	5'-gTC ³	368	5'-Agg ³	47	1070	225	135
66					5'-CgC ³	604	5'-gTC ³	419	5'-gTC ³	419	1070	155	
67					5'-gCT ³	505	5'-gTC ³	368	5'-gTC ³	368	1070	225	
68					5'-TgT ³	557	5'-gTC ³	368	5'-gTC ³	368	1070	180	
69					5'-CAT ³	512	5'-gTC ³	368	5'-gTC ³	368	1070	230	
70					5'-CTA ³	280	5'-Agg ³	47	5'-gTC ³	368	1070	185	
71					5'-CT ³	618	5'-Agg ³	47	5'-Agg ³	47	1070	405	
72					5'-CT ³	618	5'-gTA ³	419	5'-gTA ³	419	1070	240	
73					5'-CAT ³	565	5'-AgT ³	538	5'-AgT ³	538	1070	120	
74					5'-CCC ³	233	5'-gAA ³	544	5'-gTC ³	419	1070	185	
						90	5'-Agg ³	47	5'-Agg ³	47	1070	355	215



101.615-24/04 – including *Taq* pol., IFU-01
 101.615-24u/04u – without *Taq* pol., IFU-02

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Lot-specific information

Length of spec.	245	290	110	185	70	100	190	285	215	185	275	130	90	240	80	535	130	120	220	145	100	205	155	135	105	100	125	175	255	60	415	245	205	105	320	185					
PCR product(s)	425				145			505	425		300				290				230	465	170	225	250	185		150	300	250	260		260		285	230	270	360	265				
Well No.	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					
HLA-C allele ^{4,5}																																									
*07:01:01:01-07:01:04, 07:01:06-07:01:24, 07:01:26- 07:01:33, 07:103, 07:111, 07:113, 07:115-07:116, 07:128, 07:131, 07:134, 07:156, 07:162-07:163, 07:166, 07:170, 07:182, 07:188-07:190, 07:197, 07:200-07:201, 07:204, 07:206, 07:214-07:215, 07:219, 07:222-07:223, 07:225, 07:228, 07:231, 07:236-07:237, 07:246, 07:249, 07:253, 07:255- 07:257, 07:266-07:269, 07:276-07:278, 07:280- 07:282, 07:293, 07:296- 07:299	1	2	3																																						
*07:01:05, 07:110, 07:230, 07:250	1		3																																						
*07:01:25	1	2																																							
*07:02:01:01-07:02:39, 07:102, 07:105, 07:114, 07:133, 07:135-07:136, 07:144, 07:146, 07:157- 07:160, 07:167, 07:169, 07:174-07:175, 07:178, 07:185, 07:187, 07:193- 07:195, 07:208-07:209, 07:211, 07:213, 07:217, 07:220-07:221, 07:226, 07:229, 07:232-07:234, 07:239-07:240, 07:244, 07:251, 07:259, 07:261- 07:262, 07:270-07:271, 07:273-07:275, 07:283- 07:284, 07:286-07:288, 07:290-07:291	1			4											16																										
*07:03	1				5															20																					
*07:04:01-07:04:08, 07:139, 07:142, 07:199:01-07:199:02, 07:272	1					6									16	17																									
*07:05	1	2					7								16																										
*07:06	1	2	3					8													21																				
*07:07	1	2							9											19																			32		
*07:08	1									10					16																										
*07:09	1	2	3						9																															32	
*07:10	1			4							11				16																										
*07:11	1					6						13			16	17																									
*07:12	1					6						12																													
*07:13, 07:289	1			4										14	16																										
*07:14	1	2													15	16																									
*07:15	1			4											16					18																					
*07:16	1	2																			19																				
*07:17:01-07:17:02	1																				20																				
*07:18	1	2	3																			21																			
*07:19	1		3	4																		21																			
*07:20	1	2	3																				22																		36
*07:21	1	2	3																																						
*07:22	1	2	3																																						
Well No.	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					



101.615-24/04 – including *Taq* pol., IFU-01
 101.615-24u/04u – without *Taq* pol., IFU-02

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Lot-specific information

275 245		195 135		255 100		440 205 120		255 140		250 205 100		175 140 105		195 165		475 240		420 350 315 200		455 420 200		400 220 155		220 155		425 170 105		285 235 65		280 205 65		155 110		370 340 235 120		290 210 150		255 210		175 70		450 80		200		370 305 130		405 245 70		280 200		320 275		225 135		155		225		180		230		185		405		240		120		185		355 215		Length of spec.		PCR product(s)	
Well No.																																																																															
HLA-C allele ^{4,5}																																																																															
*07:01:01:01-07:01:04, 07:01:06-07:01:24, 07:01:26-07:01:33, 07:103, 07:111, 07:113, 07:115-07:116, 07:128, 07:131, 07:134, 07:156, 07:162-07:163, 07:166, 07:170, 07:182, 07:188-07:190, 07:197, 07:200-07:201, 07:204, 07:206, 07:214-07:215, 07:219, 07:222-07:223, 07:225, 07:228, 07:231, 07:236-07:237, 07:246, 07:249, 07:253, 07:255-07:257, 07:266-07:269, 07:276-07:278, 07:280-07:282, 07:293, 07:296-07:299																																																																															
*07:01:05, 07:110, 07:230, 07:250																																																																															
*07:01:25																																																																															
*07:02:01:01-07:02:39, 07:102, 07:105, 07:114, 07:133, 07:135-07:136, 07:144, 07:146, 07:157-07:160, 07:167, 07:169, 07:174-07:175, 07:178, 07:185, 07:187, 07:193-07:195, 07:208-07:209, 07:211, 07:213, 07:217, 07:220-07:221, 07:226, 07:229, 07:232-07:234, 07:239-07:240, 07:244, 07:251, 07:259, 07:261-07:262, 07:270-07:271, 07:273-07:275, 07:283-07:284, 07:286-07:288, 07:290-07:291																																																																															
*07:03																																																																															
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101.615-24/04 – including *Taq* pol., IFU-01
 101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: 42S

Lot-specific information

																								Length of spec.			
																								PCR product(s)			
																								Well No.			
275	245																										
195	135																										
255	100																										
		440	205	120																							
			255	140																							
			250	205	100																						
			175	140	105																						
				195	165																						
				475	240																						
			420	350	315	200																					
				455	420	200																					
				400	220	155																					
					220	155																					
					425	170	105																				
					285	235	65																				
					280	205	65																				
						155	110																				
						370	340	235	120																		
						290	210	150																			
							255	210																			
							175	70																			
							450	80																			
								200																			
								370	305	130																	
								405	245	70																	
									280	200																	
									320	275																	
									225	135																	
									155																		
									225																		
									180																		
									230																		
									185																		
									405																		
									240																		
									120																		
									185																		
										355	215																



101.615-24/04 – including *Taq* pol., IFU-01
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Lot No.: **42S**

Lot-specific information

																								Length of spec.																																																										
																								PCR product(s)																																																										
275	245	195	135	255	100	440	205	120	255	140	250	205	100	175	140	105	195	165	475	240	420	350	315	200	455	420	200	400	220	155	220	155	425	170	105	285	235	65	280	205	65	155	110	370	340	235	120	290	210	150	255	210	175	70	450	80	200	370	305	130	405	245	70	280	200	320	275	225	135	155	225	180	230	185	405	240	120	185	355	215	Well No.	
																								*07:210																																																										
																								*07:216																																																										
																								*07:224																																																										
																								*07:227N, 07:254 ¹⁷																																																										
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																								*07:242																																																										
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37																									*07:260																																																									
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																								*07:279																																																										
																								*07:285																																																										
																								*07:292																																																										
																								*07:294																																																										
																								*01:60, 03:14, 12:14:01-12:14:02, 14:17, 17:01:01:01-17:04, 17:06-17:19, B*46:06																																																										
																								*02:14, 03:39, 03:67, 04:42, 06:02:01:01-06:02:01:02, 06:02:03-06:02:05, 06:02:07-06:02:11, 06:02:13-06:02:22, 06:02:24-06:02:25, 06:04-06:06, 06:08-06:10, 06:12-06:16N, 06:18-06:21, 06:23-06:43, 06:45-06:51, 06:54-06:66, 06:68-06:69, 06:71-06:75, 06:78-06:96, 15:23, 15:63, B*08:17, B*08:39, B*08:47																																																										
																								*02:49, 03:15, 03:32, 03:45, 03:60, 03:136, 04:03, 04:06, 04:16, 04:80, 15:25, A*01:110, A*11:135																																																										
																								*02:57, 04:40, B*38:23, B*39:73																																																										
																								*03:04:19, 03:113																																																										
																								*03:69, 04:27, 04:52, 12:58																																																										
																								*03:162																																																										
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																								*04:34, 04:122, B*35:178, B*73:01-73:02																																																										
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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	Well No.																																												



101.615-24/04 – including *Taq* pol., IFU-01
 101.615-24u/04u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **42S**

Lot-specific information

275 245 195 135 255 100 440 205 120 255 140 250 205 100 175 140 105 195 165 475 240 420 350 315 200 455 420 200 400 220 155 220 155 425 170 105 285 235 65 280 205 65 155 110 370 340 235 120 290 210 150 255 210 175 70 450 80 200 370 305 130 405 245 70 280 200 320 275 225 135 155 225 180 230 185 405 240 120 185 355 215																								Length of spec.
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																								PCR product(s)
																								Well No.
																								*04:120, 05:01:01:01-05:01:16, 05:01:18-05:01:26, 05:04:01-05:08, 05:10-05:16, 05:18:01-05:22:02, 05:24-05:41, 05:44:01-05:45, 05:47-05:48N, 05:50-05:51Q, 05:53-05:61, 05:63-05:87, 08:01:01-08:04:03, 08:06, 08:08-08:14, 08:16:01-08:20, 08:22-08:37, 08:39-08:46, 08:48-08:50, 08:52N-08:63, 08:65-08:71, 08:73-08:74, A*29:10, B*14:32, B*18:83
																								*04:129
																								*05:01:17
																								*05:03
																								*05:09:02, 08:15:02
																								*05:17
																								*05:23, 08:07, 08:47
																								*05:42, 05:46, 08:05, 08:21
																								*05:43
																								*05:62
																								*06:02:23
																								*06:07
																								*06:17, 18:01-18:03, 18:06
																								*06:22
																								*06:44
																								*06:53:01-06:53:02
																								*06:67
																								*06:70
																								*06:87
																								*08:38
																								*12:03:10
																								*15:62
																								*15:65
																								*16:31, B*15:193
																								*17:05
																								*18:04
																								*18:05
																								A*24:02:62
																								A*30:01:03
																								A*33:03:09
																								A*68:01:12
																								B*07:77
																								B*07:87, B*27:55
																								B*27:36, B*48:21, B*48:26
																								B*35:08:04
																								B*37:04:02
																								B*40:60
																								B*40:100
																								B*44:148
																								B*51:142
																								B*56:08
																								B*56:14
																								Well No.



101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **42S**

Lot-specific information

¹The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells.

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-C*07 subtyping.

In addition, wells number 2, 3, 5, 9, 11, 14, 18, 19, 21, 22, 28, 36, 39, 43, 49, 57 and 63 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.

²The nucleotide position, in the 1st, 2nd, 3rd, 4th, 5th or 7th exon or the 3rd or 5th intron, matching the specificity-determining 3'-end of the primer is given. Nucleotide numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

³The nucleotide position, in the 2nd, 3rd, 4th, 6th or 7th exon 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.

⁴The HLA-Cw*0734 allele has been renamed to HLA-C*07:27:02.

The C*07:295 allele has never been assigned.

⁵HLA-C*07 alleles in bold lettering are listed as confirmed alleles on the IMGT/HLA web page www.ebi.ac.uk/imgt/hla, release 3.11.0, January 2013.

⁶The C*07:78 and 07:235 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 40.

⁷The C*07:93 and 07:207 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 42.

⁸The C*07:100 and 07:161 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 49.

⁹The C*07:104N, 07:119 and 07:124 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 50.

¹⁰The C*07:117 and 07:126 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 51.

¹¹The C*07:118 and 07:203 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 52.

¹²The C*07:129 and 07:153 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 54.

¹³The C*07:132 and 07:179 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 55.

¹⁴The C*07:147 and 07:241 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 60.

¹⁵The C*07:164N and 07:212 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 58.

¹⁶The C*07:165 and 07:180 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 60.

¹⁷The C*07:227N and 07:254 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 30.

¹⁸Primer mix 1: Specific PCR fragment of 245 bp in the C*07:07, 07:09, 07:49, 07:76, 07:115, 07:210, 07:223, 07:238, 07:247 and 07:295 alleles. Specific PCR fragment of 425 bp in the C*07:02:21, 07:41 and 07:166 alleles. Specific PCR fragment of 245 and 425 bp in the C*07:01:01:01-07:02:20, 07:02:22-07:06, 07:08, 07:10-07:33N, *07:35-07:40, 07:42-07:48, 07:50-07:75, 07:77-07:114, 07:116-07:165, 07:167-07:209 and 07:211-07:222, 07:224-07:237, 07:239-07:246, 07:248-07:294 and 07:296-07:299 alleles.

Primer mix 5: Specific PCR fragment of 70 bp in the C*07:53 and 07:216 alleles. Specific PCR fragment of 145 bp in the C*07:57 allele. Specific PCR fragment of 245 bp in the C*07:03 allele.

Primer mix 8: Specific PCR fragment of 285 bp in the C*07:45 and the C*02:57 and 04:40 and in the B*38:23 and B*39:73 alleles. Specific PCR fragment of 505 bp in the C*07:06 allele.

Primer mix 9: Specific PCR fragment of 215 bp in the C*07:33N allele. Specific PCR fragment of 425 bp in the C*07:07, 07:09, 07:49, 07:76, 07:210, 07:238 and 07:247 and the C*06:17 and 18:01-18:06 alleles.

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: 42S**Lot-specific information**

Primer mix 11: Specific PCR fragment of 275 bp in the C*07:24 and 07:218 alleles. Specific PCR fragment of 300 bp in the C*07:10, 07:43, 07:112, 07:184 and 07:196 and the C*03:04:19 and 03:113 and in the B*35:08:04 and B*37:04:02 alleles.

Primer mix 15: Specific PCR fragment of 80 bp in the C* 07:50 allele. Specific PCR fragment of 290 bp in the C*07:14 allele. Specific PCR fragment of 460 bp in the C*07:89 allele.

Primer mix 18: Specific PCR fragment of 120 bp in the C*07:52 and 07:243 and the C*05:03 alleles. Specific PCR fragment of 230 bp in the C*07:15 and in the B*07:77 and B*40:60 alleles.

Primer mix 19: Specific PCR fragment of 220 bp in the C*07:26, 07:92 and 07:96:01-07:96:02 alleles. Specific PCR fragment of 465 bp in the C*07:07, 07:16, 07:51, 07:177 and 07:181 alleles.

Primer mix 20: Specific PCR fragment of 145 bp in the C*07:03, 07:17:01-07:17:02 and 07:140-07:141:02 and the C*03:04:19, 03:113, 04:01:43, 05:01:17, 05:09:02, 05:17, 06:02:23, 08:15:02 and 12:03:10 and in the A*30:01:03 and A*33:03:09 alleles. Specific PCR fragment of 170 bp in the 07:44 and 07:48 alleles. Specific PCR fragment of 195 bp in the C*07:81 and 07:168 alleles. Specific PCR fragment of 145 bp and 195 bp in the B*35:08:04 and B*37:04:02 alleles.

Primer mix 21: Specific PCR fragment of 100 bp in the C*07:54 allele. Specific PCR fragment of 225 bp in the C*07:06, 07:18 and 07:19 alleles.

Primer mix 22: Specific PCR fragment of 205 bp in the C*07:84 allele. Specific PCR fragment of 250 bp in the C*07:20, 07:96:01-07:96:02, 07:127 and 07:263 and in the C*02:49, 03:15, 03:32, 03:45, 03:60, 03:136, 04:03, 04:06, 04:16, 04:80, 06:70, 15:25 and 15:62 and in the A*01:110 and A*11:135 alleles.

Primer mix 23: Specific PCR fragment of 155 bp in the C*07:23 allele. Specific PCR fragment of 185 bp in the C*07:21 allele.

Primer mix 25: Specific PCR fragment of 105 bp in the C*07:46 and in the B*56:06^w and B*56:14 alleles. Specific PCR fragment of 150 bp in the C*07:30 allele.

Primer mix 26: Specific PCR fragment of 100 bp in the C*07:32N allele. Specific PCR fragment of 250 bp in the C*07:55N allele. Specific PCR fragment of 300 bp in the C*07:31:01-07:31:02 and 07:177 and the C*06:02:23 and 12:03:10 alleles.

Primer mix 28: Specific PCR fragment of 175 bp in the C*07:44 allele. Specific PCR fragment of 260 bp in the C*07:35 and 07:47 alleles.

Primer mix 30: Specific PCR fragment of 60 bp in the C*07:75 and 07:254 alleles. Specific PCR fragment of 260 bp in the C*07:227N and the C*04:66 alleles.

Primer mix 32: Specific PCR fragment of 245 bp in the C*07:07, 07:09, 07:49, 07:76, 07:210, 07:238 and 07:247 and the C*02:14, 04:42, 05:43, 06:02:01:01-06:02:01:02, 06:02:03-06:02:05, 06:02:07-06:02:11, 06:02:13-06:02:25, 06:04-06:10, 06:12-06:51, 06:53:01-06:75, 06:78-06:96, 15:23, 15:63 and 18:01-18:06 and in the B*08:17, B*08:47 alleles. Specific PCR fragment of 285 bp in the C*07:60 and 07:79 and the C*03:39 and 03:67 and the B*08:39 alleles.

Primer mix 33: Specific PCR fragment of 205 bp in the C*07:66 allele. Specific PCR fragment of 230 bp in the C*07:82 allele.

Primer mix 34: Specific PCR fragment of 105 bp in the C*07:67 allele. Specific PCR fragment of 270 bp in the C*07:70 allele.

Primer mix 35: Specific PCR fragment of 320 bp in the C*07:72 allele. Specific PCR fragment of 360 bp in the C*07:71 allele.

Primer mix 36: Specific PCR fragment of 185 bp in the C*07:107 and 07:224 and in the C*06:22 and 16:31 and the B*15:193 alleles. Specific PCR fragment of 265 bp in the C*07:20, 07:64, 07:73, 07:92, 07:96:01-07:96:02 and 07:172 and the C*18:04 alleles.

Primer mix 37: Specific PCR fragment of 245 bp in the C*07:63 and 07:121Q alleles. Specific PCR fragment of 275 bp in the C*07:38:01-07:38:02, 07:68 and 07:260 and the C*08:38 and the B*07:77 and B*40:60 alleles.

Primer mix 38: Specific PCR fragment of 135 bp in the C*07:58 allele. Specific PCR fragment of 195 bp in the C*07:65 allele.

Primer mix 39: Specific PCR fragment of 100 bp in the C*07:74 allele. Specific PCR fragment of 255 bp in the C*07:59 allele.

Primer mix 40: Specific PCR fragment of 120 bp in the C*07:235 allele. Specific PCR fragment of 205 bp in the C*07:62 allele. Specific PCR fragment of 440 bp in the C*07:07, 07:09, 07:76 and 07:78 and in the C*06:17 and 18:01-18:06 alleles.

Primer mix 41: Specific PCR fragment of 140 bp in the C*07:91 allele. Specific PCR fragment of 255 bp in the C*07:88 allele.

101.615-24/04 – including *Taq* pol., IFU-01
 101.615-24u/04u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: 42S**Lot-specific information**

Primer mix 42: Specific PCR fragment of 100 bp in the C*07:15 and 07:207 alleles. Specific PCR fragment of 205 bp in the C*07:77 and 07:93 alleles. Specific PCR fragment of 250 bp in the C*07:123, 07:173 and 07:294 and the B*35:08:04 alleles.

Primer mix 43: Specific PCR fragment of 105 bp in the C*07:94 and 07:183 alleles. Specific PCR fragment of 140 bp in the C*07:99 allele. Specific PCR fragment of 175 bp in the C*07:80 allele.

Primer mix 44: Specific PCR fragment of 165 bp in the C*07:98N allele. Specific PCR fragment of 195 bp in the C*07:65 and 07:77 alleles.

Primer mix 45: Specific PCR fragment of 240 bp in the C*07:245 allele. Specific PCR fragment of 475 bp in the C*07:95 and the C*04:34 and 04:122 and in the B*35:178 and B*73:01-73:02 alleles.

Primer mix 46: Specific PCR fragment of 200 bp in the C*07:83 allele. Specific PCR fragment of 315 bp in the C*07:202 allele. Specific PCR fragment of 350 bp in the C*07:90 allele. Specific PCR fragment of 420 bp in the C*07:152N allele.

Primer mix 47: Specific PCR fragment of 200 bp in the C*07:86 allele. Specific PCR fragment of 420 bp in the C*07:152N allele. Specific PCR fragment of 455 bp in the C*07:97 allele.

Primer mix 48: Specific PCR fragment of 155 bp in the C*07:122 allele. Specific PCR fragment of 220 bp in the C*07:87 allele. Specific PCR fragment of 400 bp in the C*07:85 allele.

Primer mix 49: Specific PCR fragment of 155 bp in the C*07:101, 07:148 and 07:161 and the C*04:129, 05:42, 05:46, 06:67, 08:05, 08:21 and 17:05 alleles. Specific PCR fragment of 220 bp in the C*07:100 allele.

Primer mix 50: Specific PCR fragment of 105 bp in the C*07:104N allele. Specific PCR fragment of 170 bp in the C*07:119 and in the B*07:87 and B*27:55 alleles. Specific PCR fragment of 425 bp in the C*07:124 and 07:155 alleles.

Primer mix 51: Specific PCR fragment of 65 bp in the C*07:126 allele. Specific PCR fragment of 235 bp in the C*07:121Q allele. Specific PCR fragment of 285 bp in the C*07:117 allele.

Primer mix 52: Specific PCR fragment of 65 bp in the C*07:203 allele. Specific PCR fragment of 205 bp in the C*07:118 allele. Specific PCR fragment of 280 bp in the C*07:106 allele.

Primer mix 53: Specific PCR fragment of 110 bp in the C*07:140, 07:151 and 07:154 and in the B*37:04:02 alleles. Specific PCR fragment of 155 bp in the C*07:122 allele.

Primer mix 54: Specific PCR fragment of 120 bp in the C*07:153 and in the B*51:142 alleles. Specific PCR fragment of 235 bp in the C*07:64 allele. Specific PCR fragment of 340 bp in the C*07:125 allele. Specific PCR fragment of 370 bp in the C*07:129 allele.

Primer mix 55: Specific PCR fragment of 150 bp in the C*07:179 and the C*06:07 alleles. Specific PCR fragment of 210 bp in the C*07:252 allele. Specific PCR fragment of 290 bp in the C*07:132 allele.

Primer mix 56: Specific PCR fragment of 210 bp in the C*07:150Q allele. Specific PCR fragment of 255 bp in the C*07:123, 07:143, 07:173 and 07:294 and the B*35:08:04 alleles.

Primer mix 57: Specific PCR fragment of 70 bp in the C*07:01:25 allele. Specific PCR fragment of 175 bp in the C*07:130 and the C*05:01:17, 05:09:02, 05:17 and 08:15:02 alleles.

Primer mix 58: Specific PCR fragment of 80 bp in the C*07:137:01-07:137:02, 07:186, 07:212 and 07:265 and the C*03:162 alleles. Specific PCR fragment of 450 bp in the C*07:164N allele.

Primer mix 60: Specific PCR fragment of 130 bp in the C*07:165, 07:241 and 07:265, and the C*03:04:19, 03:113, 04:01:43, 05:01:17, 05:09:02, 06:02:23, 08:15:02 and 12:03:10 alleles. Specific PCR fragment of 305 bp in the C*07:147 allele. Specific PCR fragment of 370 bp in the C*07:180 allele.

Primer mix 62: Specific PCR fragment of 200 bp in the C*07:84 and 07:205 alleles. Specific PCR fragment of 280 bp in the C*07:106 allele.

Primer mix 63: Specific PCR fragment of 275 bp in the C*07:24 and 07:218 alleles. Specific PCR fragment of 320 bp in the C*07:198N and 07:202 alleles.

Primer mix 64: Specific PCR fragment of 135 bp in the C*07:69 allele. Specific PCR fragment of 225 bp in the C*07:192 allele.

Primer mix 74: Specific PCR fragment of 215 bp in the C*07:33N allele. Specific PCR fragment of 355 bp in the C*07:80 allele.

¹⁹This lot of the HLA-C*07 subtyping kit cannot distinguish the C*07:198N and the C*07:218 alleles.

'w', may be weakly amplified.

101.615-24/04 – including *Taq* pol., IFU-01
 101.615-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: 42S

Lot-specific information

				CELL LINE VALIDATION SHEET															
				HLA-C*07 SSP subtyping kit															
				Well															
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				Prod. No.:															
				201069801	201189502	201189503	201069804	201208105	201069806	201069807	201069808	201319309	201069810	201200511	201069812	201069813	201208114	201208115	201319316
	IHWC cell line	C*																	
1	9001 SA	*07:02		+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	+
2	9280 LK707	*07:01	*15:05	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*12:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*03:04	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*03:04	*07:02	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	+
7	9020 QBL	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*01:02	*03:04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:03	*07:01	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*01:02	*07:05	+	+	-	-	-	-	+	-	-	-	-	-	-	-	-	+
19	9038 BM16	*07:01		+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*01:02	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*08:02		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
26	9285 WT49	*07:01		+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*07:04	*15:05	+	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+
28	9320 BEL5GB	*05:01	*16:01	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
29	9050 MOU	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*17:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
31	9019 DUCAF	*05:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
32	9297 HAG	*17:01	*17:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
33	9098 MT14B	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*05:01		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
36	9024 KT17	*03:03	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*07:02		+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	+
38	9099 LZL	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*02:02	*07:01	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*01:02	*06:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*08:02		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
42	9066 TAB089	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*01:02	*08:01	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
44	9057 TEM	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*06:02	*17:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
46	9013 SCHU	*07:02		+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	+
47	9045 TUBO	*07:04	*15:02	+	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+
48	9303 TER-ND	*04:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.615-24/04 – including *Taq* pol., IFU-01
 101.615-24u/04u – without *Taq* pol., IFU-02

Visit www.olerup-ssp.com for
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Lot No.: 42S

Lot-specific information

CELL LINE VALIDATION SHEET																			
HLA-C*07 SSP subtyping kit																			
				Well															
				17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
			Prod. No.:	201069817	201208118	201319319	201208120	201069821	201069822	201208123	201319324	201069825	201069826	201208127	201189528	201189529	201208130	201200531	201069832
	IHCW cell line	C*																	
1	9001 SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*07:01	*15:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*12:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*03:04	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
6	9353 SM	*03:04	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
13	9004 JESTHOM	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*01:02	*03:04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:03	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*01:02	*07:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*01:02	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*07:04	*15:05	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*05:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*17:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*17:01	*17:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*03:03	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*02:02	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*01:02	*06:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
41	9055 H0301	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*01:02	*08:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*06:02	*17:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
46	9013 SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*07:04	*15:02	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*04:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.615-24/04 – including *Taq* pol., IFU-01
 101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **42S**

Lot-specific information

CELL LINE VALIDATION SHEET																			
HLA-C*07 SSP subtyping kit																			
				Well															
				33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
			Prod. No.:	201189533	201319334	201319335	201208136	201208137	201319338	201069839	201208140	201069841	201208142	201208143	201208144	201208145	201200546	201200547	201208148
	IHCW cell line	C*																	
1	9001 SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*07:01	*15:05	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
3	9011 E4181324	*12:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*03:04	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*03:04	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*01:02	*03:04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:03	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*01:02	*07:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*01:02	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*07:04	*15:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*05:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*17:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*17:01	*17:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*03:03	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*02:02	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*01:02	*06:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*01:02	*08:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*06:02	*17:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*07:04	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*04:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



101.615-24/04 – including *Taq* pol., IFU-01
 101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **42S**

Lot-specific information

CELL LINE VALIDATION SHEET																			
HLA-C*07 SSP subtyping kit																			
				Well															
				49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
			Prod. No.:	201200549	201200550	201208151	201208152	201208153	201208154	201208155	201208156	201208157	201208158	201208159	201208160	201208161	201208162	201208163	201208164
	IHWC cell line	C*																	
1	9001 SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*07:01	*15:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*12:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*03:04	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*03:04	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*01:02	*03:04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:03	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*01:02	*07:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*01:02	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*07:04	*15:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*05:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*17:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*17:01	*17:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*03:03	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*02:02	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*01:02	*06:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*01:02	*08:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*06:02	*17:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*07:04	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*04:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



101.615-24/04 – including *Taq* pol., IFU-01
 101.615-24u/04u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **42S**

Lot-specific information

CELL LINE VALIDATION SHEET														
HLA-C*07 SSP subtyping kit														
				Well										
				65	66	67	68	69	70	71	72	73	74	
				Prod. No.:	201319365	201319366	201319367	201319368	201319369	201319370	201319371	201319372	201319373	201319374
	IHWC cell line		C*											
1	9001 SA		*07:02		-	-	-	-	-	-	-	-	-	-
2	9280 LK707		*07:01	*15:05	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324		*12:02		-	-	-	-	-	-	-	-	-	-
4	9275 GU373		*03:04	*04:01	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011		*06:02		-	-	-	-	-	-	-	-	-	-
6	9353 SM		*03:04	*07:02	-	-	-	-	-	-	-	-	-	-
7	9020 QBL		*05:01		-	-	-	-	-	-	-	-	-	-
8	9025 DEU		*04:01		-	-	-	-	-	-	-	-	-	-
9	9026 YAR		*12:03		-	-	-	-	-	-	-	-	-	-
10	9107 LKT3		*01:02		-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT		*16:01		-	-	-	-	-	-	-	-	-	-
12	9052 DBB		*06:02		-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM		*01:02		-	-	-	-	-	-	-	-	-	-
14	9071 OLGA		*01:02	*03:04	-	-	-	-	-	-	-	-	-	-
15	9075 DKB		*03:04		-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007		*02:02		-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540		*03:03	*07:01	-	-	-	-	-	-	-	-	-	-
18	9257 32367		*01:02	*07:05	-	-	-	-	-	-	-	-	-	-
19	9038 BM16		*07:01		-	-	-	-	-	-	-	-	-	-
20	9059 SLE005		*03:04		-	-	-	-	-	-	-	-	-	-
21	9064 AMALA		*03:03		-	-	-	-	-	-	-	-	-	-
22	9056 KOSE		*12:03		-	-	-	-	-	-	-	-	-	-
23	9124 IHL		*01:02	*15:02	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH		*12:03		-	-	-	-	-	-	-	-	-	-
25	9049 IBW9		*08:02		-	-	-	-	-	-	-	-	-	-
26	9285 WT49		*07:01		-	-	-	-	-	-	-	-	-	-
27	9191 CH1007		*07:04	*15:05	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB		*05:01	*16:01	-	-	-	-	-	-	-	-	-	-
29	9050 MOU		*16:01		-	-	-	-	-	-	-	-	-	-
30	9021 RSH		*17:01		-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF		*05:01		-	-	-	-	-	-	-	-	-	-
32	9297 HAG		*17:01	*17:03	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B		*03:04		-	-	-	-	-	-	-	-	-	-
34	9104 DHIF		*12:03		-	-	-	-	-	-	-	-	-	-
35	9302 SSTO		*05:01		-	-	-	-	-	-	-	-	-	-
36	9024 KT17		*03:03	*04:01	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB		*07:02		-	-	-	-	-	-	-	-	-	-
38	9099 LZL		*03:03		-	-	-	-	-	-	-	-	-	-
39	9315 CML		*02:02	*07:01	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199		*01:02	*06:02	-	-	-	-	-	-	-	-	-	-
41	9055 H0301		*08:02		-	-	-	-	-	-	-	-	-	-
42	9066 TAB089		*01:02		-	-	-	-	-	-	-	-	-	-
43	9076 T7526		*01:02	*08:01	-	-	-	-	-	-	-	-	-	-
44	9057 TEM		*12:03		-	-	-	-	-	-	-	-	-	-
45	9239 SHJO		*06:02	*17:01	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU		*07:02		-	-	-	-	-	-	-	-	-	-
47	9045 TUBO		*07:04	*15:02	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND		*04:01	*16:01	-	-	-	-	-	-	-	-	-	-

101.615-24/04 – including *Taq* pol., IFU-01
 101.615-24u/04u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **42S**

Lot-specific information

CERTIFICATE OF ANALYSIS

Olerup SSP® HLA-C*07 SSP

Product number: 101.615-24/04 – including *Taq* pol.
 101.615-24u/04u – without *Taq* pol.

Lot number: 42S

Expiry date: 2015-December-01

Number of tests: 24 tests – Product No. 101.615-24/24u
 4 tests – Product No. 101.615-04/04u

Number of wells per test: 74

Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2010-698-01	33	2011-895-33	65	2013-193-65
2	2011-895-02	34	2013-193-34	66	2013-193-66
3	2011-895-03	35	2013-193-35	67	2013-193-67
4	2010-698-04	36	2012-08136	68	2013-193-68
5	2012-081-05	37	2012-081-37	69	2013-193-69
6	2010-698-06	38	2013-193-38	70	2013-193-70
7	2010-698-07	39	2010-698-39	71	2013-193-71
8	2010-698-08	40	2012-081-40	72	2013-193-72
9	2013-193-09	41	2010-698-41	73	2013-193-73
10	2010-698-10	42	2012-081-42	74	2013-193-74
11	2012-005-11	43	2012-081-43		
12	2010-698-12	44	2012-081-44		
13	2010-698-13	45	2012-081-45		
14	2012-081-14	46	2012-005-46		
15	2012-081-15	47	2012-005-47		
16	2013-193-16	48	2012-081-48		
17	2010-698-17	49	2012-005-49		
18	2012-081-18	50	2012-005-50		
19	2013-193-19	51	2012-081-51		
20	2012-081-20	52	2012-081-52		
21	2010-698-21	53	2012-081-53		
22	2010-698-22	54	2012-081-54		
23	2012-081-23	55	2012-081-55		
24	2013-193-24	56	2012-081-56		
25	2010-698-25	57	2012-081-57		
26	2010-698-26	58	2012-081-58		
27	2012-081-27	59	2012-081-59		
28	2011-895-28	60	2012-081-60		
29	2011-895-29	61	2012-081-61		
30	2012-081-30	62	2012-081-62		
31	2012-005-31	63	2012-081-63		
32	2010-698-32	64	2012-081-64		

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **42S**

Lot-specific information

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

No DNAs carrying the alleles to be amplified by primer solutions 5, 10, 11, 13 to 15, 18, 19, 23 to 31, 34 to 36, 38, 39, 41 to 44 and 46 to 74 were available.

The specificities of the primers in primer solutions 5, 10, 11, 13 to 15, 18, 19, 24 to 27, 31, 36, 42 to 44, 46 to 50, 53, 54, 56 to 60, 63, 64, 71, 72 and 74 were tested by separately adding one 5'-primer, respectively one 3'-primer.

In primer solutions 35, 51, 61, 65 to 70 and 73 it was only possible to test the 5'-primer, the 3'-primer were not possible to test.

In primer solutions 23, 28 to 30, 34, 38, 39, 41, 52, 55 and 62 it was only possible to test the 3'-primers, the 5'-primers were not possible to test.

In primer solutions 8, 11, 20, 22, 26, 33, 42, 44, 46 to 49, 53, 56, 57, 59 and 63 one or two 5'-primers were not possible to test, and in primer solutions 5, 9, 13, 15, 18, 21, 25, 32, 36, 37, 40, 43, 46 to 48, 50, 54, 58, 60, 63, 64 and 74 one or two 3'-primers were not possible to test.

Additional primers in primer solutions 2, 8, 20, 21, 33, 37, 40 and 45 were tested by separately adding either one 5'-primer or one 3'-primer.

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

Date of approval: 2013-July-16

Approved by:

Production Quality Control

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **42S**

Lot-specific information

Declaration of Conformity

Product name: *Olerup* SSP® HLA-C*07
Product number: 101.615-24/24u, -04/04u
Lot number: 42S

Intended use: HLA-C*07 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 III, 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.

Stockholm, Sweden
2013-July-16

Ann-Cathrin Jareman
Head of QA and Regulatory Affairs

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **42S**

Lot-specific information

101.615-24/04 – including *Taq* pol., IFU-01
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Lot No.: **42S**

Lot-specific information

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