101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 29S **Lot-specific information**

Olerup SSP® HLA-A*02

Product number:	**101.412-24/04 – including *Taq* pol.** **101.412-24u/04u – without *Taq* pol.**
Lot number:	**29S**
Expiry date:	**2015-November-01**
Number of tests:	**24 tests – Product No. 101.412-24/24u** **4 tests – Product No. 101.412-04/04u**
Number of wells per test:	**96**
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. 29S.

CHANGES COMPARED TO THE PREVIOUS *OLERUP* SSP®
HLA-A*02 LOT (25R)

The specificity and interpretation tables have been revised since the previous *Olerup* SSP® HLA-A*02 lot **(25R)**.

The HLA-A*02 kit is updated for new alleles to enable separation of:

- Confirmed[1] alleles as listed in the IMGT/HLA database
- Polymorphisms in exons outside of the region encoding the peptide binding domain
- Null and Alternatively expressed alleles

The Lot-specific information for HLA-A*02 including and without *Taq* polymerase is now described in one common Product Insert.

[1]As described in section Uniquely Identified Alleles.

Lot No.: 29S **Lot-specific information**

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

Well	5'-primer	3'-primer	rationale
18	-	Added	3'-primer added for the A*02:395N allele.
34	-	Added	3'-primer added for the A*02:395N allele.
39	Exchanged	-	5'-primer exchanged for improved specificity of primer pair.
46	-	Moved	3'-primer moved to well 87.
77	-	Added	3'-primer added for the A*02:344 allele.
85	-	Added	3'-primer added for the A*02:376 allele.
87	-	Added	3'-primer added for the A*02:181 allele.

Change in revision R01 compared to R00:
1. Primer mix 1 may amplify the A*02:07:01-02:07:02 alleles. A footnote has been added in the Specificity Table.

Change in revision R02 compared to R01:
1. Primer mix 1 does amplify the A*02:158 allele. This has been corrected in the Specificity and Interpretation tables.

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 29S **Lot-specific information**

Lot No.: 29S **Lot-specific information**

PRODUCT DESCRIPTION

HLA-A*02 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the A*02:01 to A*02:403 alleles.

PLATE LAYOUT

Each test consists of 96 PCR reactions in a 96 well cut PCR plate.

1	**2**	**3**	**4**	**5**	**6**	**7**	**8**
9	**10**	**11**	**12**	**13**	**14**	**15**	**16**
17	**18**	**19**	**20**	**21**	**22**	**23**	**24**
25	**26**	**27**	**28**	**29**	**30**	**31**	**32**
33	**34**	**35**	**36**	**37**	**38**	**39**	**40**
41	**42**	**43**	**44**	**45**	**46**	**47**	**48**
49	**50**	**51**	**52**	**53**	**54**	**55**	**56**
57	**58**	**59**	**60**	**61**	**62**	**63**	**64**
65	**66**	**67**	**68**	**69**	**70**	**71**	**72**
73	**74**	**75**	**76**	**77**	**78**	**79**	**80**
81	**82**	**83**	**84**	**85**	**86**	**87**	**88**
89	**90**	**91**	**92**	**93**	**94**	**95**	**96**

The 96 well cut PCR plate is marked with 'HLA-A*02' in silver/gray ink.
Well No. 1 is marked with the Lot No. '29S'.
A faint row of numbers is seen between wells 1 and 2 or wells 7 and 8 of the PCR trays. These stem from the manufacture of the trays, and should be disregarded.
The PCR plates are covered with a PCR-compatible foil.

INTERPRETATION

The interpretation of HLA-A*02 SSP subtypings will be influenced by eight A*01, most A*03, eight A*11, the A*23, most A*24, the A*25:11, ten A*26, five A*29, several A*30, four A*31, four A*32, eight A*33, the A*34:08, the A*66:09, the A*68, the A*69:01, three A*74 and the A*80:01:01:01alleles when present on the other haplotype. In addition, the B*15:67 and B*35:110 alleles will be amplified by primer mix 88, the B*15:173 and B*18:63 alleles will be amplified by primer mix 93, the B*44:59:02 allele will be amplified by primer mixes 16, 75 and 91, the B*44:136 allele will be amplified by primer mixes 16 and 91, the B*51:136 allele will be amplified by primer mixes 5, 10, 16 and 91, the C*03:82 allele will be amplified by primer mix 34, the C*07:204 allele will be amplified by primer mixes 5, 16, 24, 49 and 91, the C*12:37 allele will be amplified by primer mixes 10, 16 and 91 and the C12:94 and C*14:48 alleles will be amplified by primer mixes 41, 88 and 95.

Lot No.: 29S **Lot-specific information**

UNIQUELY IDENTIFIED ALLELES

All HLA-A*02 alleles recognized by the HLA Nomenclature Committee in January 2013, i.e. **A*02:01 to A*02:403,** will be amplified by the primers in the HLA-A*02 subtyping kit[1].

The HLA-A*02 kit enables separation of the confirmed HLA-A*02 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-A*02 alleles is listed below.

The HLA-A*02 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 A*02:97:01-02:97:02 and the 02:305N alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 59.
The A*02:107, the 02:202 and the 02:251 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 65.
The A*02:111 and 02:350N alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 67.
The A*02:119 and 02:263 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 73.
The A*02:120 and 02:223N alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 74.
The A*02:132, the 02:215 and the 02:237 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 83.
The A*02:134 and 02:314N alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 85.
The A*02:138 and 02:284N alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 87.
The A*02:139 and 02:235 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 88.
The A*02:141 and 02:275 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 90.
The A*02:150, the 02:197 and the 02:325 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 94.
The A*02:153 and 02:196 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 96.
The A*02:180 and 02:358 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 29.
The A*02:193 and 02:213 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 78.
The A*02:269 and 02:367 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 70.

The HLA-A*02 subtyping kit cannot distinguish the silent mutations in the A*02:01:01:01, 02:01:01:03-02:01:02, 02:01:04-02:01:15, 02:01:18-02:01:19, 02:01:21-02:01:51, 02:01:53-02:01:62, 02:01:64-02:01:73, 02:01:75-02:01:81 and 02:01:83-02:01:86 alleles, the A*02:01:17, 02:01:52, 02:01:63 and 02:01:74 alleles, the A*02:03:01 and 02:03:03-02:03:04 alleles, the A*02:05:01-02:05:06 alleles, the A*02:06:01-02:06:11 and 02:06:13 alleles, the A*02:07:01-02:07:02 alleles, the A*02:11:01, 02:11:03-02:11:04 alleles, the

Lot No.: 29S **Lot-specific information**

A*02:17:01-02:17:02 alleles, the 02:20:01-02:20:02 alleles, the A*02:22:01-02:22:02 alleles, the A*02:24:01-02:24:02 alleles, the A*02:40:01-02:40:02 alleles, the A*02:60:01-02:60:02 alleles, the A*02:74:01-02:74:02 alleles, the A*02:76:01-02:76:02 alleles, the A*02:79:01-02:79:02 alleles, the A*02:97:01-02:97:02 alleles, the A*02:101:01-02:101:02 alleles and the A*02:171:01-02:171:02 alleles.

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

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101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 29S **Lot-specific information**

ALLELE CONFIRMATION STATUS

Allele	Status[1]	Allele	Status[1]	Allele	Status[1]	Allele	Status[1]	Allele	Status[1]
A*02:01:01:01	**Confirmed**	**A*02:01:51**	**Confirmed**	A*02:06:04	Unconfirmed	**A*02:38**	**Confirmed**	A*02:82N	**Confirmed**
A*02:01:01:02L	**Confirmed**	**A*02:01:52**	**Confirmed**	**A*02:06:05**	**Confirmed**	**A*02:39**	**Confirmed**	A*02:83N	Unconfirmed
A*02:01:01:03	Unconfirmed	A*02:01:53	Unconfirmed	A*02:06:06	Unconfirmed	**A*02:40:01**	**Confirmed**	**A*02:84**	**Confirmed**
A*02:01:02	**Confirmed**	A*02:01:54	Unconfirmed	A*02:06:07	Unconfirmed	A*02:40:02	Unconfirmed	**A*02:85**	**Confirmed**
A*02:01:03	**Confirmed**	A*02:01:55	Unconfirmed	**A*02:06:08**	**Confirmed**	**A*02:41**	**Confirmed**	**A*02:86**	**Confirmed**
A*02:01:04	**Confirmed**	A*02:01:56	Unconfirmed	A*02:06:09	Unconfirmed	**A*02:42**	**Confirmed**	**A*02:87**	**Confirmed**
A*02:01:05	Unconfirmed	A*02:01:57	Unconfirmed	A*02:06:10	Unconfirmed	A*02:43N	Unconfirmed	A*02:88N	Unconfirmed
A*02:01:06	Unconfirmed	A*02:01:58	Unconfirmed	**A*02:06:11**	**Confirmed**	**A*02:44**	**Confirmed**	A*02:89	Unconfirmed
A*02:01:07	Unconfirmed	A*02:01:59	Unconfirmed	A*02:06:12	Unconfirmed	A*02:45	Unconfirmed	**A*02:90**	**Confirmed**
A*02:01:08	Unconfirmed	A*02:01:60	Unconfirmed	A*02:06:13	Unconfirmed	A*02:46	Unconfirmed	A*02:91	Unconfirmed
A*02:01:09	**Confirmed**	**A*02:01:61**	**Confirmed**	**A*02:07:01**	**Confirmed**	A*02:47	Unconfirmed	A*02:92	Unconfirmed
A*02:01:10	Unconfirmed	A*02:01:62	Unconfirmed	A*02:07:02	Unconfirmed	**A*02:48**	**Confirmed**	**A*02:93**	**Confirmed**
A*02:01:11	Unconfirmed	A*02:01:63	Unconfirmed	**A*02:08**	**Confirmed**	**A*02:49**	**Confirmed**	A*02:94N	Unconfirmed
A*02:01:12	Unconfirmed	A*02:01:64	Unconfirmed	**A*02:09**	**Confirmed**	A*02:50	Unconfirmed	A*02:95	Unconfirmed
A*02:01:13	Unconfirmed	A*02:01:65	Unconfirmed	**A*02:10**	**Confirmed**	A*02:51	**Confirmed**	**A*02:96**	**Confirmed**
A*02:01:14Q	**Confirmed**	A*02:01:66	Unconfirmed	**A*02:11:01**	**Confirmed**	A*02:52	Unconfirmed	A*02:97:01	Unconfirmed
A*02:01:15	Unconfirmed	A*02:01:67	Unconfirmed	**A*02:11:02**	**Confirmed**	**A*02:53N**	**Confirmed**	A*02:97:02	Unconfirmed
A*02:01:17	Unconfirmed	A*02:01:68	Unconfirmed	A*02:11:03	Unconfirmed	**A*02:54**	**Confirmed**	A*02:99	Unconfirmed
A*02:01:18	**Confirmed**	A*02:01:69	Unconfirmed	A*02:11:04	Unconfirmed	**A*02:55**	**Confirmed**	A*02:101:01	Unconfirmed
A*02:01:19	Unconfirmed	**A*02:01:70**	**Confirmed**	**A*02:12**	**Confirmed**	A*02:56:01	Unconfirmed	**A*02:101:02**	**Confirmed**
A*02:01:21	Unconfirmed	A*02:01:71	Unconfirmed	**A*02:13**	**Confirmed**	A*02:56:02	Unconfirmed	**A*02:102**	**Confirmed**
A*02:01:22	**Confirmed**	A*02:01:72	Unconfirmed	**A*02:14**	**Confirmed**	A*02:57	Unconfirmed	A*02:103	Unconfirmed
A*02:01:23	**Confirmed**	A*02:01:73	Unconfirmed	A*02:15N	Unconfirmed	**A*02:58**	**Confirmed**	A*02:104	Unconfirmed
A*02:01:24	**Confirmed**	A*02:01:74	Unconfirmed	A*02:16	Unconfirmed	A*02:59	Unconfirmed	**A*02:105**	**Confirmed**
A*02:01:25	**Confirmed**	A*02:01:75	Unconfirmed	**A*02:17:01**	**Confirmed**	**A*02:60:01**	**Confirmed**	A*02:106	Unconfirmed
A*02:01:26	**Confirmed**	A*02:01:76	Unconfirmed	A*02:17:02	Unconfirmed	A*02:60:02	Unconfirmed	A*02:107	Unconfirmed
A*02:01:27	**Confirmed**	A*02:01:77	Unconfirmed	A*02:18	Unconfirmed	**A*02:61**	**Confirmed**	A*02:108	Unconfirmed
A*02:01:28	Unconfirmed	A*02:01:78	Unconfirmed	A*02:19	Unconfirmed	A*02:62	Unconfirmed	A*02:109	Unconfirmed
A*02:01:29	**Confirmed**	A*02:01:79	Unconfirmed	**A*02:20:01**	**Confirmed**	A*02:63	Unconfirmed	**A*02:110**	**Confirmed**
A*02:01:30	**Confirmed**	A*02:01:80	Unconfirmed	A*02:20:02	Unconfirmed	**A*02:64**	**Confirmed**	A*02:111	Unconfirmed
A*02:01:31	**Confirmed**	A*02:01:81	Unconfirmed	A*02:21	Unconfirmed	A*02:65	Unconfirmed	A*02:112	Unconfirmed
A*02:01:32	**Confirmed**	A*02:01:83	Unconfirmed	**A*02:22:01**	**Confirmed**	A*02:66	Unconfirmed	**A*02:113N**	**Confirmed**
A*02:01:33	Unconfirmed	**A*02:01:84**	**Confirmed**	A*02:22:02	Unconfirmed	A*02:67	Unconfirmed	**A*02:114**	**Confirmed**
A*02:01:34	**Confirmed**	A*02:01:85	Unconfirmed	**A*02:24:01**	**Confirmed**	A*02:68	Unconfirmed	A*02:115	Unconfirmed
A*02:01:35	**Confirmed**	A*02:01:86	Unconfirmed	A*02:24:02	Unconfirmed	A*02:69	Unconfirmed	A*02:116	Unconfirmed
A*02:01:36	**Confirmed**	**A*02:02**	**Confirmed**	**A*02:25**	**Confirmed**	A*02:70	Unconfirmed	A*02:117	Unconfirmed
A*02:01:37	**Confirmed**	**A*02:03:01**	**Confirmed**	A*02:26	Unconfirmed	A*02:71	Unconfirmed	**A*02:118**	**Confirmed**
A*02:01:38	**Confirmed**	A*02:03:02	Unconfirmed	**A*02:27**	**Confirmed**	A*02:72	Unconfirmed	**A*02:119**	**Confirmed**
A*02:01:39	**Confirmed**	**A*02:03:03**	**Confirmed**	**A*02:28**	**Confirmed**	A*02:73	Unconfirmed	A*02:120	Unconfirmed
A*02:01:40	**Confirmed**	A*02:03:04	Unconfirmed	**A*02:29**	**Confirmed**	A*02:74:01	Unconfirmed	**A*02:121**	**Confirmed**
A*02:01:41	Unconfirmed	**A*02:04**	**Confirmed**	**A*02:30**	**Confirmed**	A*02:74:02	Unconfirmed	**A*02:122**	**Confirmed**
A*02:01:42	**Confirmed**	**A*02:05:01**	**Confirmed**	A*02:31	Unconfirmed	A*02:75	Unconfirmed	**A*02:123**	**Confirmed**
A*02:01:43	**Confirmed**	**A*02:05:02**	**Confirmed**	A*02:32N	Unconfirmed	**A*02:76:01**	**Confirmed**	A*02:124	Unconfirmed
A*02:01:44	Unconfirmed	**A*02:05:03**	**UnConfirmed**	**A*02:33**	**Confirmed**	A*02:76:02	Unconfirmed	**A*02:125N**	**Confirmed**
A*02:01:45	**Confirmed**	**A*02:05:04**	**Confirmed**	A*02:34	Unconfirmed	**A*02:77**	**Confirmed**	A*02:126	Unconfirmed
A*02:01:46	**Confirmed**	A*02:05:05	Unconfirmed	**A*02:35:01**	**Confirmed**	A*02:78	Unconfirmed	A*02:127	Unconfirmed
A*02:01:47	**Confirmed**	A*02:05:06	Unconfirmed	A*02:35:02	Unconfirmed	A*02:79:01	Unconfirmed	**A*02:128**	**Confirmed**
A*02:01:48	Unconfirmed	**A*02:06:01**	**Confirmed**	A*02:35:03	Unconfirmed	A*02:79:02	Unconfirmed	**A*02:129**	**Confirmed**
A*02:01:49	**Confirmed**	A*02:06:02	Unconfirmed	**A*02:36**	**Confirmed**	**A*02:80**	**Confirmed**	A*02:130	Unconfirmed
A*02:01:50	**Confirmed**	A*02:06:03	Unconfirmed	A*02:37	Unconfirmed	A*02:81	Unconfirmed	**A*02:131**	**Confirmed**

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 29S **Lot-specific information**

Allele	Status[1]	Allele	Status[1]	Allele	Status[1]	Allele	Status[1]	Allele	Status[1]
A*02:132	Unconfirmed	A*02:181	Unconfirmed	A*02:229	Unconfirmed	A*02:279	Unconfirmed	A*02:329	Unconfirmed
A*02:133	**Confirmed**	**A*02:182**	**Confirmed**	**A*02:230**	**Confirmed**	A*02:280	Unconfirmed	A*02:330	**Confirmed**
A*02:134	Unconfirmed	**A*02:183**	**Confirmed**	A*02:231	Unconfirmed	A*02:281	Unconfirmed	A*02:331	Unconfirmed
A*02:135	Unconfirmed	A*02:184	Unconfirmed	A*02:232	Unconfirmed	A*02:282	Unconfirmed	A*02:332	Unconfirmed
A*02:136	**Confirmed**	A*02:185	Unconfirmed	**A*02:233**	**Confirmed**	**A*02:283**	**Confirmed**	A*02:333	Unconfirmed
A*02:137	Unconfirmed	**A*02:186**	**Confirmed**	A*02:234	Unconfirmed	A*02:284N	Unconfirmed	A*02:334	Unconfirmed
A*02:138	Unconfirmed	A*02:187	Unconfirmed	**A*02:235**	**Confirmed**	A*02:285	Unconfirmed	A*02:335	Unconfirmed
A*02:139	**Confirmed**	**A*02:188**	**Confirmed**	A*02:236	Unconfirmed	A*02:286	Unconfirmed	A*02:336	Unconfirmed
A*02:140	Unconfirmed	**A*02:189**	**Confirmed**	**A*02:237**	**Confirmed**	A*02:287	Unconfirmed	A*02:337	Unconfirmed
A*02:141	**Confirmed**	**A*02:190**	**Confirmed**	A*02:238	Unconfirmed	A*02:288	Unconfirmed	**A*02:338**	**Confirmed**
A*02:142	Unconfirmed	A*02:191	Unconfirmed	A*02:239	Unconfirmed	**A*02:289**	**Confirmed**	A*02:339	Unconfirmed
A*02:143	Unconfirmed	A*02:192	Unconfirmed	A*02:240	Unconfirmed	A*02:290	Unconfirmed	A*02:340	Unconfirmed
A*02:144	Unconfirmed	A*02:193	Unconfirmed	A*02:241	Unconfirmed	**A*02:291**	**Confirmed**	A*02:341	Unconfirmed
A*02:145	Unconfirmed	**A*02:194**	**Confirmed**	**A*02:242**	**Confirmed**	A*02:292	Unconfirmed	A*02:342	Unconfirmed
A*02:146	**Confirmed**	A*02:195	Unconfirmed	A*02:243	Unconfirmed	A*02:293Q	Unconfirmed	A*02:343	Unconfirmed
A*02:147	**Confirmed**	A*02:196	Unconfirmed	A*02:244	Unconfirmed	A*02:294	Unconfirmed	**A*02:344**	**Confirmed**
A*02:148	Unconfirmed	**A*02:197**	**Confirmed**	**A*02:245**	**Confirmed**	A*02:295	Unconfirmed	A*02:345	Unconfirmed
A*02:149	**Confirmed**	**A*02:198**	**Confirmed**	A*02:246	Unconfirmed	A*02:296	Unconfirmed	A*02:346	Unconfirmed
A*02:150	Unconfirmed	**A*02:199**	**Confirmed**	A*02:247	Unconfirmed	A*02:297	Unconfirmed	A*02:347	Unconfirmed
A*02:151	**Confirmed**	**A*02:200**	**Confirmed**	A*02:248	Unconfirmed	A*02:298	Unconfirmed	A*02:348	Unconfirmed
A*02:152	Unconfirmed	A*02:201	Unconfirmed	A*02:249	Unconfirmed	**A*02:299**	**Confirmed**	A*02:349	Unconfirmed
A*02:153	**Confirmed**	**A*02:202**	**Confirmed**	A*02:250N	Unconfirmed	A*02:300	Unconfirmed	A*02:350N	Unconfirmed
A*02:154	**Confirmed**	**A*02:203**	**Confirmed**	A*02:251	**Confirmed**	A*02:301N	Unconfirmed	**A*02:351**	**Confirmed**
A*02:155	Unconfirmed	A*02:204	Unconfirmed	A*02:252	Unconfirmed	A*02:302	Unconfirmed	A*02:352	Unconfirmed
A*02:156	Unconfirmed	**A*02:205**	**Confirmed**	A*02:253	Unconfirmed	A*02:303	Unconfirmed	A*02:353	Unconfirmed
A*02:157	Unconfirmed	**A*02:206**	**Confirmed**	A*02:254	Unconfirmed	A*02:304	Unconfirmed	A*02:354	Unconfirmed
A*02:158	**Confirmed**	**A*02:207**	**Confirmed**	A*02:255	Unconfirmed	A*02:305N	Unconfirmed	A*02:355	Unconfirmed
A*02:159	Unconfirmed	A*02:208	Unconfirmed	A*02:256	Unconfirmed	A*02:306	Unconfirmed	A*02:356N	Unconfirmed
A*02:160	**Confirmed**	A*02:209	Unconfirmed	A*02:257	Unconfirmed	A*02:307	Unconfirmed	A*02:357	Unconfirmed
A*02:161	**Confirmed**	A*02:210	Unconfirmed	A*02:258	Unconfirmed	A*02:308	Unconfirmed	A*02:358	Unconfirmed
A*02:162	Unconfirmed	**A*02:211:01**	**Confirmed**	**A*02:259**	**Confirmed**	A*02:309	Unconfirmed	A*02:359	Unconfirmed
A*02:163	**Confirmed**	A*02:211:02	Unconfirmed	**A*02:260**	**Confirmed**	A*02:310	Unconfirmed	A*02:360	Unconfirmed
A*02:164	**Confirmed**	A*02:212	Unconfirmed	A*02:261	Unconfirmed	A*02:311	Unconfirmed	A*02:361	Unconfirmed
A*02:165	**Confirmed**	**A*02:213**	**Confirmed**	A*02:262	Unconfirmed	A*02:312	Unconfirmed	A*02:362	Unconfirmed
A*02:166	**Confirmed**	**A*02:214**	**Confirmed**	**A*02:263**	**Confirmed**	A*02:313	Unconfirmed	A*02:363	Unconfirmed
A*02:167	Unconfirmed	**A*02:215**	**Confirmed**	A*02:264	Unconfirmed	A*02:314N	Unconfirmed	A*02:364	Unconfirmed
A*02:168	Unconfirmed	A*02:216	Unconfirmed	A*02:265	Unconfirmed	**A*02:315**	**Confirmed**	A*02:365	Unconfirmed
A*02:169	**Confirmed**	A*02:217:01	Unconfirmed	A*02:266	Unconfirmed	A*02:316	Unconfirmed	A*02:366N	Unconfirmed
A*02:170	Unconfirmed	A*02:217:02	Unconfirmed	**A*02:267**	**Confirmed**	A*02:317	Unconfirmed	**A*02:367**	**Confirmed**
A*02:171:01	Unconfirmed	A*02:218	Unconfirmed	A*02:268	Unconfirmed	A*02:318	Unconfirmed	A*02:368	Unconfirmed
A*02:171:02	Unconfirmed	A*02:219	Unconfirmed	**A*02:269**	**Confirmed**	A*02:319	Unconfirmed	A*02:369	Unconfirmed
A*02:172	**Confirmed**	A*02:220	Unconfirmed	A*02:270	Unconfirmed	A*02:320	Unconfirmed	A*02:370	Unconfirmed
A*02:173	**Confirmed**	**A*02:221**	**Confirmed**	A*02:271	Unconfirmed	A*02:321N	Unconfirmed	A*02:371	Unconfirmed
A*02:174	Unconfirmed	A*02:222N	Unconfirmed	A*02:272	Unconfirmed	A*02:322	Unconfirmed	A*02:372	Unconfirmed
A*02:175	Unconfirmed	A*02:223N	Unconfirmed	A*02:273	Unconfirmed	**A*02:323**	**Confirmed**	A*02:373N	Unconfirmed
A*02:176	Unconfirmed	A*02:224	Unconfirmed	A*02:274	Unconfirmed	A*02:324	Unconfirmed	A*02:374	Unconfirmed
A*02:177	**Confirmed**	A*02:225N	Unconfirmed	**A*02:275**	**Confirmed**	**A*02:325**	**Confirmed**	A*02:375	Unconfirmed
A*02:178	Unconfirmed	A*02:226N	Unconfirmed	A*02:276	Unconfirmed	A*02:326	Unconfirmed	A*02:376	Unconfirmed
A*02:179	Unconfirmed	**A*02:227N**	**Confirmed**	A*02:277	Unconfirmed	A*02:327	Unconfirmed	A*02:377	Unconfirmed
A*02:180	**Confirmed**	**A*02:228**	**Confirmed**	A*02:278	Unconfirmed	A*02:328	Unconfirmed	A*02:378	Unconfirmed

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: 29S **Lot-specific information**

Allele	Status[1]	Allele	Status[1]
A*02:379	Unconfirmed	A*02:400	Unconfirmed
A*02:380	Unconfirmed	A*02:401	Unconfirmed
A*02:381	Unconfirmed	A*02:402	Unconfirmed
A*02:382	Unconfirmed	A*02:403	Unconfirmed
A*02:383	Unconfirmed		
A*02:384	Unconfirmed		
A*02:385	Unconfirmed		
A*02:386	Unconfirmed		
A*02:387	Unconfirmed		
A*02:388	Unconfirmed		
A*02:389	Unconfirmed		
A*02:390	Unconfirmed		
A*02:391	Unconfirmed		
A*02:392	Unconfirmed		
A*02:394	Unconfirmed		
A*02:395N	Unconfirmed		
A*02:396	Unconfirmed		
A*02:397	Unconfirmed		
A*02:398	Unconfirmed		
A*02:399	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.

Lot No.: 29S

Lot-specific information

SPECIFICITY TABLE

HLA-A*02 SSP subtyping

Specificities and sizes of the PCR products of the 96 primer mixes used for HLA-A*02 SSP subtyping

Primer Mix	Size of spec. PCR product[1]	Size of control band[2]	Amplified HLA-A*02 alleles[3]	Other amplified HLA-A alleles[4]
1[8,76]	360 bp	**800 bp**	*02:01:01:01-02:01:15, 02:01:17-02:01:19, 02:01:21-02:01:81, 02:01:83-02:06:13, 02:08-02:09, 02:12-02:14, 02:16, 02:19-02:22:02, 02:24:01-02:32N, 02:34, 02:36-02:38, 02:40:01-02:46, 02:49-02:68, 02:70-02:77, 02:79:01-02:80, 02:82N-02:86, 02:88N-02:89, 02:91-02:97:02, 02:99, 02:101:01-02:102, 02:104-02:107, 02:109, 02:111, 02:113N-02:123, 02:125N-02:127, 02:131-02:135, 02:137-02:145, 02:147, 02:149-02:190, 02:192-02:211:01, 02:212-02:218, 02:220-02:241, 02:243, 02:245-02:246, 02:248-02:249, 02:251-02:254, 02:256-02:260, 02:262-02:264, 02:266-02:267, 02:269-02:281, 02:283-02:296, 02:299, 02:301N-02:302, 02:304-02:307, 02:309-02:316, 02:318, 02:320-02:330, 02:332-02:334, 02:336-02:346, 02:348-02:350N, 02:352-02:360, 02:362-02:368, 02:370-02:392, 02:394-02:397, 02:399-02:402	*01:104, 03:09, 03:89, 03:108, 11:06, 11:18, 25:11, 26:03:01-26:03:02, 26:06, 26:21, 26:30, 26:36, 26:78, 29:19, 30:13, 30:16, 30:44, 30:46, 32:08, 33:24, 68:05, 68:15, 68:20, 74:06, 80:01:01:01[W]
2	240 bp	1070 bp	*02:01:01:01-02:01:02, 02:01:04-02:01:15, 02:01:17-02:01:19, 02:01:21-02:01:81, 02:01:83-02:04, 02:07:01-02:07:02, 02:09, 02:12-02:13, 02:15N-02:20:02, 02:22:01-02:22:02, 02:24:01-02:27, 02:29-02:34, 02:36-02:40:02, 02:42-02:43N, 02:45-02:47, 02:49-02:50, 02:52-02:53N, 02:55-02:56:02, 02:58-02:60:02, 02:62-02:68, 02:70-02:71, 02:73-02:75, 02:77, 02:80, 02:82N-02:83N, 02:85-02:86, 02:88N-02:89, 02:92-02:97:02, 02:101:01-02:105, 02:107, 02:109-02:111, 02:113N-02:121, 02:123, 02:125N,	*03:09, 03:89, 03:108, 74:06

			02:130-02:135, 02:138-02:141, 02:145, 02:147-02:153, 02:155-02:168, 02:171:01-02:171:02, 02:173-02:177, 02:181-02:228, 02:230-02:231, 02:233-02:242, 02:245-02:246, 02:249-02:258, 02:260-02:270, 02:272-02:277, 02:279-02:285, 02:287-02:289, 02:291-02:294, 02:296, 02:299, 02:301N-02:307, 02:309, 02:311-02:318, 02:320-02:323, 02:325-02:327, 02:329, 02:332, 02:334-02:336, 02:338-02:343, 02:345-02:354, 02:356N-02:357, 02:360-02:365, 02:367-02:372, 02:374-02:375, 02:377-02:381, 02:383-02:386, 02:388-02:392, 02:395N-02:397, 02:399-02:403	
3[6]	175 bp	1070 bp	*02:01:01:01-02:01:15, 02:01:17-02:01:19, 02:01:21-02:01:81, 02:01:83-02:03:04, 02:05:01-02:16, 02:18, 02:20:01-02:22:02, 02:24:01-02:38, 02:40:01-02:43N, 02:45-02:56:02, 02:58-02:64, 02:66-02:78, 02:80-02:85, 02:87-02:97:02, 02:99, 02:101:01-02:107, 02:109, 02:111-02:134, 02:136-02:148, 02:150-02:151, 02:153-02:155, 02:157-02:189, 02:191-02:193, 02:195-02:223N, 02:225N-02:267, 02:269-02:299, 02:301N-02:302, 02:304-02:308, 02:310-02:333, 02:335-02:337, 02:339-02:370, 02:372-02:392, 02:394-02:399, 02:401-02:403	*68:02:01:01-68:02:05, 68:15, 68:18N, 68:23, 68:27-68:28, 68:31, 68:34, 68:40, 68:48, 68:51, 68:53-68:54, 68:60-68:62, 68:64, 68:67, 68:74, 68:77-68:78, 68:80-68:82, 68:86, 68:92, 68:97, 69:01
4[5]	80 bp	1070 bp	*02:01:01:01-02:01:15, 02:01:18-02:01:19, 02:01:21-02:01:51, 02:01:53-02:01:62, 02:01:64-02:01:73, 02:01:75-02:01:81, 02:01:83-02:01:86, 02:03:01-02:04, 02:06:01-02:06:11, 02:06:13-02:07:02, 02:09-02:13, 02:15N-02:22:02, 02:24:01-02:35:01, 02:35:03-02:44, 02:45[W], 02:46, 02:49, 02:51-02:54, 02:56:01[W], 02:57-02:62, 02:64-02:77, 02:78[W], 02:79:01-02:97:02, 02:99, 02:101:01-02:102, 02:104-02:114, 02:116-02:121, 02:123-02:128, 02:130-02:143, 02:145-02:153, 02:156-02:168, 02:170-02:171:02, 02:173-02:175, 02:177-02:178, 02:180-02:184, 02:187-02:194, 02:196-02:204,	*01:69:02[W], 01:83:02, 03:01:03[W], 03:23:01, 03:89, 11:121, 26:07:02, 29:48, 33:01:02, 33:08-33:09, 68:30, 74:04

			02:207-02:208, 02:210-02:228, 02:230-02:231, 02:233-02:270, 02:272-02:285, 02:287-02:314N, 02:316-02:319, 02:322-02:323, 02:325-02:336, 02:338-02:343, 02:345-02:358, 02:360-02:371, 02:374-02:375, 02:377, 02:379-02:381, 02:383-02:392, 02:394-02:403	
5[5]	125 bp	1070 bp	*02:01:01:01-02:01:15, 02:01:17-02:01:19, 02:01:21-02:01:81, 02:01:83-02:01:86, 02:04, 02:06:01-02:07:02, 02:09-02:11:04, 02:14-02:18, 02:20:01-02:21, 02:25-02:26, 02:28-02:36, 02:39-02:43N, 02:45-02:46, 02:48, 02:51-02:53N, 02:55-02:62, 02:64, 02:66-02:67, 02:68[W], 02:69-02:97:02, 02:99, 02:101:01-02:101:02, 02:103, 02:105-02:114, 02:116, 02:118-02:121, 02:123-02:134, 02:138-02:141, 02:143-02:147, 02:149-02:151, 02:153, 02:156-02:171:02, 02:173-02:178, 02:180-02:181, 02:183-02:185, 02:187-02:190, 02:192-02:208, 02:210-02:221, 02:223N-02:225N, 02:227N-02:228, 02:231, 02:233-02:252, 02:254-02:257, 02:259-02:263, 02:265-02:266, 02:268-02:270, 02:272-02:273, 02:275-02:279, 02:282-02:285, 02:287-02:308, 02:310-02:314N, 02:316-02:319, 02:321N-02:322, 02:325-02:336, 02:338-02:343, 02:346-02:354, 02:356N-02:358, 02:360-02:369, 02:371-02:372, 02:374-02:375, 02:377-02:381, 02:383-02:392, 02:394-02:401	*03:17:01, 23:01:01-23:01:11, 23:04-23:56, 24:13:01-24:13:02, 24:18, 24:24, 24:94, 24:188, 24:207, 24:228, 30:61, 31:67-31:68, 32:28, 33:32:01, 68:08:01-68:08:02, 68:63, 69:01, **B*51:136, C*07:204**
6[5,6]	75 bp	**800 bp**	*02:02-02:03:04, 02:05:01-02:05:06, 02:08, 02:22:01-02:22:02, 02:47, 02:49-02:50, 02:63, 02:102, 02:104, 02:115, 02:117, 02:122, 02:136, 02:148, 02:154-02:155, 02:172, 02:179, 02:186, 02:191, 02:209, 02:229-02:230, 02:232, 02:253, 02:258, 02:264, 02:267, 02:281, 02:286, 02:315, 02:320, 02:323-02:324, 02:337, 02:344-02:345, 02:355, 02:359, 02:370, 02:373N, 02:376, 02:382	*24:138, 68:01:01:01-68:01:13, 68:01:15-68:07, 68:10-68:25, 68:27-68:47, 68:49N, 68:51-68:62, 68:64-68:99
7[7]	175 bp	1070 bp	*02:02, 02:05:01-02:05:06, 02:08, 02:14, 02:47, 02:63, 02:102, 02:115,	

			02:154-02:155, 02:172, 02:179, 02:186, 02:209, 02:229, 02:232, 02:286, 02:320, 02:324, 02:337, 02:344, 02:359, 02:373N, 02:376	
8[11]	415 bp, 505 bp	1070 bp	*02:02, 02:05:01-02:05:06, 02:14, 02:32N, 02:47, 02:63, 02:102, 02:115, 02:154-02:155, 02:172, 02:179, 02:186, 02:209, 02:229, 02:232, 02:271, 02:286, 02:320, 02:324, 02:337, 02:344, 02:359, 02:373N, 02:376	
9[5]	105 bp	1070 bp	*02:03:01, 02:03:02[W], 02:03:03-02:03:04, 02:25, 02:38, 02:117, 02:148, 02:171:01-02:171:02, 02:230, 02:253, 02:258, 02:264, 02:267, 02:280-02:281, 02:315, 02:345, 02:355, 02:370	*24:99, 26:10
10[5]	115 bp	**800 bp**	*02:03:01, 02:03:02[W], 02:03:03-02:03:04, 02:13, 02:26, 02:38, 02:99, 02:117, 02:148, 02:171:01-02:171:02, 02:230, 02:253, 02:258, 02:264, 02:280-02:281, 02:315, 02:323, 02:345, 02:355, 02:370, 02:402	*03:17:01, 24:18, 24:56, 24:177, 26:10, 68:42, 68:54, 68:61, 68:63, **B*51:136, C*12:37**
11[8,9,12]	225 bp, 350 bp	1070 bp	*02:04, 02:17:01-02:17:02, 02:57, 02:65, 02:89, 02:108, 02:110, 02:152, 02:268, 02:300, 02:303, 02:334	*23:12, 24:28, 24:30, 24:42, 24:89, 29:19, 29:48, 32:08, 33:24, 68:05, 68:20, 74:06
12[13]	195 bp, 235 bp	1070 bp	*02:05:01-02:06:13, 02:08, 02:10, 02:14, 02:21, 02:28, 02:41, 02:44, 02:51, 02:54, 02:57, 02:61, 02:72, 02:79:01-02:79:02, 02:84-02:85, 02:91, 02:99, 02:106, 02:108, 02:122, 02:126-02:127, 02:137, 02:142-02:144, 02:154, 02:169-02:170, 02:172, 02:178-02:180, 02:229, 02:232, 02:244, 02:248, 02:259, 02:271, 02:278, 02:286, 02:290, 02:295, 02:300, 02:310, 02:324, 02:328, 02:330, 02:333, 02:337, 02:344, 02:355, 02:358-02:359, 02:373N, 02:376, 02:382, 02:387, 02:398	*11:06, 11:18, 26:03:01-26:03:02, 26:06, 26:21, 26:30, 26:78, 68:05, 68:15, 68:20
13[8]	145 bp	**800 bp**	*02:05:01-02:05:06, 02:08, 02:14, 02:84, 02:154, 02:172, 02:179, 02:229, 02:232, 02:271, 02:286, 02:324, 02:337, 02:344, 02:359, 02:373N, 02:376, 02:382	

Lot-specific information

14[5,8,14]	95 bp, 170 bp	**800 bp**	*02:07:01-02:07:02, 02:15N, 02:18, 02:91, 02:103, 02:112, 02:130, 02:191, 02:219, 02:255, 02:261, 02:265, 02:282, 02:319, 02:322, 02:335, 02:369, 02:403	
15[5,8,15]	125 bp, 265 bp, 305 bp	**800 bp**	*02:21, 02:87, 02:96, 02:112, 02:129, 02:136, 02:186	
16[5,16]	110 bp, 155 bp	**800 bp**	*02:09, 02:49-02:50, 02:73, 02:93, 02:122, 02:156, 02:172, 02:279	*11:119, 23:31, 23:45, 23:55, 24:15, 24:41, 24:51, 24:92, 26:10, 32:28, 68:02:01:01-68:02:05, 68:15, 68:18N, 68:25, 68:27-68:28, 68:31, 68:34, 68:40, 68:44, 68:48-68:49N, 68:51, 68:53-68:54, 68:60-68:62, 68:64, 68:67, 68:74, 68:77-68:78, 68:80-68:82, 68:86, 68:92, 68:97, **B*44:59:02, B*44:136, B*51:136, C*07:204, C*12:37**
17[17]	205 bp, 360 bp	1070 bp	*02:10, 02:17:01-02:17:02, 02:39, 02:83N, 02:108, 02:110, 02:148, 02:242, 02:244, 02:268, 02:300, 02:303, 02:398	*23:12, 24:28, 24:30, 24:42, 24:89
18[10]	175 bp	1070 bp	*02:11:01, 02:11:03-02:11:04, 02:29, 02:69, 02:128, 02:297-02:298, 02:308, 02:395N	
19[5,18]	125 bp, 165 bp	1070 bp	*02:12-02:13, 02:19, 02:27, 02:37-02:38, 02:44, 02:54, 02:142, 02:271, 02:280, 02:283	*11:119, 24:02:01:01-24:02:15, 24:02:17-24:02:41, 24:02:43-24:05, 24:07-24:11N, 24:14-24:15, 24:17, 24:19-24:20, 24:23, 24:25-24:53, 24:55-24:64, 24:66-24:86N, 24:88-24:90N, 24:92-24:93, 24:95-24:106, 24:108-24:109, 24:111-24:124, 24:126-24:132N, 24:134-24:137, 24:139-24:157,

				24:159, 24:161-24:166, 24:168-24:187, 24:189-24:203, 24:205-24:206, 24:209-24:210, 24:212, 24:214-24:226, 24:229-24:230, 33:19, 68:09, 68:26
20[19]	135 bp, 295 bp	1070 bp	*02:49, 02:200	
21[20]	220 bp, 255 bp	1070 bp	*02:15N, 02:291, 02:356N	
22	160 bp	1070 bp	*02:19, 02:36-02:37, 02:54, 02:255	*23:01:01-23:02, 23:05-23:42, 23:44-23:56, 24:02:01:01-24:02:41, 24:02:43-24:02:64, 24:04-24:09N, 24:11N, 24:13:01-24:15, 24:17, 24:19-24:20, 24:23[w], 24:24-24:32, 24:34-24:64, 24:66-24:74, 24:76-24:93, 24:95-24:109, 24:111-24:124, 24:126-24:137, 24:139-24:157, 24:159-24:166, 24:168-24:203, 24:205-24:206, 24:209, 24:212-24:218, 24:220-24:230, 33:19, 68:26, 68:65
23[21]	135 bp, 180 bp	**800 bp**	*02:17:01-02:17:02, 02:31, 02:108, 02:110, 02:161, 02:268, 02:300, 02:303, 02:387	*24:94, 24:138, 24:188, 24:228
24[5,22]	75 bp, 115 bp, 160 bp	1070 bp	*02:27, 02:230, 02:233	*11:119, 24:59, 24:190, 24:210, 24:219, 24:229, **C*07:204**
25[23]	125 bp, 145 bp, 165 bp	1070 bp	*02:16, 02:131, 02:226N, 02:283	*24:55
26[5,24]	125 bp, 165 bp, 260 bp	**800 bp**	*02:33, 02:52, 02:198	
27[5,25]	95 bp, 145 bp	1070 bp	*02:10, 02:28, 02:50, 02:52, 02:73, 02:93, 02:95, 02:110, 02:114, 02:117, 02:122, 02:155-02:156, 02:185,	*03:123, 11:16, 11:35, 11:57, 11:73, 24:131, 24:138, 24:188,

			02:242, 02:244, 02:279, 02:282, 02:300, 02:304, 02:339	24:218, 30:13, 30:16, 30:44, 30:46, 68:01:01:01-68:11N, 68:13:01-68:48, 68:51-68:99
28	235 bp	**800 bp**	*02:08, 02:20:01-02:20:02, 02:55-02:56:02, 02:62, 02:78, 02:103, 02:128, 02:169, 02:195	
29[26]	220 bp, 300 bp	1070 bp	*02:45-02:46, 02:48, 02:56:01[w]-02:56:02[w], 02:78[w], 02:92, 02:103[w], 02:129, 02:169[w], 02:180, 02:195[w], 02:358, 02:369	
30[27]	130 bp, 160 bp	**800 bp**	*02:43N, 02:104, 02:163	
31[5,6,28]	95 bp, 220 bp	**800 bp**	*02:45, 02:56:01-02:56:02, 02:78, 02:82N, 02:103, 02:169, 02:195	*23:08N
32[29]	205 bp, 230 bp, 255 bp	1070 bp	*02:46-02:48, 02:70, 02:129, 02:176	
33[7,8,30]	230 bp, 325 bp	1070 bp	*02:19, 02:36-02:37, 02:54, 02:165, 02:168, 02:255, 02:400	
34[5,6,9,31]	120 bp, 165 bp, 180 bp	**800 bp**	*02:34-02:35:02, 02:56:01-02:56:02, 02:62, 02:78, 02:88N, 02:103, 02:395N	*30:01:01-30:01:07, 30:08, 30:11:01-30:11:02, 30:14L-30:20, 30:23-30:24, 30:26, 30:30-30:31, 30:35-30:43, 30:48-30:49, 30:52-30:56, 30:58-30:60, 30:62-30:63, 30:65, 68:01:11, **C*03:82**
35[5,8,32]	110 bp, 155 bp	1070 bp	*02:40:01-02:40:02, 02:51, 02:77, 02:130	*23:01:01-23:01:11, 23:02[w], 23:04-23:23, 23:25-23:33, 23:35-23:56, 24:24, 24:71, 31:67-31:68, 32:28, 33:32:01, 68:51[w]
36[5,33]	85 bp, 445 bp	1070 bp	*02:24:01-02:24:02, 02:65, 02:94N, 02:135, 02:137, 02:152, 02:309	*01:104, 03:09, 03:89, 03:108, 11:06, 11:18, 25:11, 26:03:01-26:03:02, 26:06, 26:21, 26:30, 26:36, 26:78, 29:19, 29:48, 30:13, 30:16, 30:44, 30:46,

				32:08, 33:24, 74:06, 80:01:01:01[W]
37	140 bp	1070 bp	*02:38, 02:68, 02:101:01-02:101:02, 02:154	*11:119, 23:10[W], 24:10:01-24:10:02, 24:46[W], 24:91, 24:210, 26:10, 68:61
38[5,34]	125 bp, 225 bp	**800 bp**	*02:41, 02:80, 02:117, 02:289, 02:304, 02:351	
39[5,6,35]	170 bp, 260 bp 300 bp	1070 bp	*02:18, 02:159, 02:170, 02:293Q, 02:364	
40[5,8,36]	90 bp, 210 bp	1070 bp	*02:40:01-02:40:02, 02:51, 02:67, 02:130	*29:22, 33:22
41[8]	185 bp	1070 bp	*02:02, 02:05:01-02:05:06, 02:08, 02:14, 02:17:01-02:17:02, 02:47, 02:57-02:58, 02:63, 02:75, 02:102, 02:108, 02:110, 02:115, 02:154-02:155, 02:172, 02:179, 02:186, 02:209, 02:229, 02:232, 02:271, 02:286, 02:300, 02:303, 02:320, 02:324, 02:337, 02:344, 02:359, 02:373N, 02:376	*24:94, 24:138, 24:188, 24:228, **C*12:94, C*14:48**
42[7]	225 bp	**800 bp**	*02:34-02:35:03, 02:56:01-02:56:02, 02:62, 02:103	*01:13, 01:17, 03:01:01:01-03:07, 03:09-03:11N, 03:13-03:31, 03:33-03:35, 03:37-03:40, 03:42-03:58, 03:60-03:71, 03:73-03:87, 03:90-03:106, 03:109-03:141, 03:143-03:151, 03:153-03:162N, 30:55, 34:08, 68:71, 74:13
43[37]	180 bp, 225 bp	**800 bp**	*02:03:01-02:03:04, 02:22:01-02:22:02, 02:49, 02:71, 02:104, 02:117, 02:136, 02:148, 02:191, 02:230, 02:253, 02:258, 02:264, 02:267, 02:281, 02:315, 02:323, 02:345, 02:355, 02:370, 02:382, 02:402	*26:22, 66:09, 68:83
44[5,38]	125 bp, 155 bp, 205 bp	**800 bp**	*02:59, 02:203, 02:222N	
45[5,39]	105 bp, 185 bp	1070 bp	*02:19, 02:39, 02:44, 02:60:01-02:60:02, 02:79:01-02:79:02, 02:86,	*01:20, 01:66, 03:95, 24:14, 24:93

			02:254, 02:400	
46[5,7,40]	70 bp, 205 bp	1070 bp	*02:61, 02:66	
47[41]	165 bp, 205 bp, 255 bp, 305 bp	**800 bp**	*02:35:01-02:35:03, 02:48, 02:63, 02:78, 02:90, 02:144, 02:205, 02:207, 02:331	
48[5]	115 bp	1070 bp	*02:64, 02:177-02:178	
49[5.42]	115 bp, 145 bp	1070 bp	*02:27, 02:38, 02:101:01-02:101:02, 02:154, 02:267	*11:119, 23:10[w], 24:10:01-24:10:02, 24:46[w], 24:59, 24:190, 24:210, 24:229, 26:10, 68:61, **C*07:204**
50	145 bp	**800 bp**	*02:01:01:02L	
51	410 bp	1070 bp	*02:65, 02:80, 02:114, 02:117, 02:152, 02:246, 02:279, 02:304	*01:104, 03:09, 03:89, 03:108, 11:06, 11:18, 29:19, 29:48, 32:08, 33:24, 68:05, 68:20, 74:06, 80:01:01:01[w]
52	185 bp	**800 bp**	*02:76:01-02:76:02, 02:319	*30:22
53	225 bp	1070 bp	*02:14, 02:17:01-02:17:02, 02:57-02:58, 02:108, 02:110, 02:300, 02:303	*03:75, 23:01:01-23:01:11, 23:03:01-23:13, 23:14:02-23:33, 23:35-23:56, 24:13:01, 24:18, 24:24, 24:94, 24:188, 24:207, 24:228, 29:07, 30:52, 31:29
54[7,8,43]	240 bp, 350 bp	**800 bp**	*02:74:01-02:74:02, 02:189-02:190	
55[6]	200 bp	1070 bp	*02:01:83, 02:13, 02:26, 02:30, 02:40:01-02:40:02, 02:51, 02:99, 02:130, 02:226N, 02:323, 02:399, 02:402	*03:95, 29:22, 33:22
56[44]	150 bp, 275 bp	1070 bp	*02:53N, 02:81, 02:124, 02:175, 02:181	
57[5,7,45]	105 bp, 145 bp	1070 bp	*02:42, 02:160, 02:175, 02:310	
58	255 bp	**800 bp**	*02:11:01-02:11:04, 02:35:01-02:35:03, 02:48, 02:69, 02:78, 02:90, 02:128, 02:297-02:298, 02:308, 02:331	
59[8,46]	145 bp, 190 bp	**800 bp**	*02:97:01-02:97:02, 02:305N	

60[8]	345 bp	1070 bp	*02:50, 02:65, 02:73, 02:122, 02:135, 02:152, 02:245, 02:334	*25:11, 26:03:01-26:03:02, 26:06, 26:21, 26:30, 26:36, 26:78, 29:19, 29:48, 32:08, 33:24, 68:05, 68:15, 68:20, 74:06
61[7,8]	185 bp	1070 bp	*02:50, 02:73, 02:122, 02:156, 02:245, 02:334, 02:338	*03:123, 11:16, 11:35, 11:57, 11:73, 68:01:01:01-68:11N, 68:13:01-68:43, 68:45-68:48, 68:51-68:82, 68:84-68:99
62	180 bp	**800 bp**	*02:69, 02:179	*68:01:01:01-68:32, 68:34-68:95, 68:97-68:99
63[5,47]	95 bp, 160 bp	**800 bp**	*02:105, 02:259, 02:301N	*03:51, 30:37, 32:46
64[5,48]	125 bp, 175 bp, 260 bp	1070 bp	*02:106, 02:145, 02:164, 02:187, 02:221	*01:44, 03:44, 23:41, 24:72, 29:15
65[49]	145 bp, 185 bp, 250 bp	1070 bp	*02:107, 02:160, 02:202, 02:251	
66	170 bp	**800 bp**	*02:109	
67[5,50]	105bp, 130 bp, 180 bp, 300 bp	**800 bp**	*02:111, 02:177, 02:330, 02:350N	
68[51]	210 bp, 260 bp	1070 bp	*02:113N, 02:184, 02:321N	
69[52]	170 bp, 225 bp, 335 bp	1070 bp	*02:114, 02:166, 02:246, 02:260, 02:279	
70[5,53]	125 bp, 180 bp, 285 bp	**800 bp**	*02:53N, 02:115, 02:192, 02:269, 02:367	
71[8]	260 bp	**800 bp**	*02:116	
72[5,54]	110 bp, 230 bp, 260 bp	1070 bp	*02:19, 02:44, 02:118, 02:135, 02:149, 02:152, 02:183, 02:189-02:190, 02:309, 02:402	

Lot-specific information

73[5,55]	80 bp, 200 bp, 250 bp	**800 bp**	*02:119, 02:158, 02:263	
74[56]	175 bp, 250 bp	**800 bp**	*02:120, 02:187, 02:223N	
75[5,8, 57]	100 bp, 165 bp, 205 bp	1070 bp	*02:121, 02:166, 02:373N	*23:47, 68:14, 68:49N, 68:81, **B*44:59:02**
76	220 bp	**800 bp**	*02:50, 02:122, 02:143, 02:225N	
77[5,58]	85 bp, 110 bp	**800 bp**	*02:123, 02:162, 02:295, 02:344	
78[5,59]	75 bp, 130 bp, 240 bp	1070 bp	*02:124, 02:193, 02:213	
79[8,60]	215 bp, 270 bp	1070 bp	*02:53N, 02:125N, 02:184, 02:192, 02:227N	
80[5,61]	90 bp, 135 bp, 230 bp	1070 bp	*02:126, 02:194, 02:214	
81[5,7,62]	110 bp, 235 bp, 315 bp	**800 bp**	*02:127, 02:165, 02:167, 02:183, 02:299, 02:400	
82[63]	130 bp, 255 bp, 295 bp	1070 bp	*02:131, 02:199, 02:291	
83[5,64]	120 bp, 240 bp	**800 bp**	*02:132, 02:215, 02:237	*03:95
84[7,65]	180 bp, 205 bp, 245 bp	**800 bp**	*02:133, 02:164, 02:250N, 02:315	*01:44, 03:44
85[66]	170 bp, 260 bp	**800 bp**	*02:134, 02:314N, 02:376	*32:48N
86[67]	180 bp, 255 bp, 310 bp	**800 bp**	*02:135, 02:174, 02:228, 02:309	
87[68]	155 bp, 210 bp	**800 bp**	*02:138, 02:181, 02:284N	
88[69]	135 bp, 240 bp	**800 bp**	*02:139, 02:188, 02:235	**B*15:67, B*35:110, C*12:94, C*14:48**
89[5,70]	120 bp, 200 bp	**800 bp**	*02:140, 02:182, 02:227N	*24:133, 31:48, 33:15

90[5,71]	100 bp, 130 bp, 190 bp	**800 bp**	*02:72, 02:141, 02:161, 02:206, 02:275	
91[5]	110 bp	**800 bp**	*02:50, 02:73, 02:93, 02:122, 02:156, 02:162, 02:172, 02:211:01-02:211:02, 02:279	*11:119, 23:31, 23:45, 23:55, 24:15, 24:41, 24:51, 24:92, 26:10, 32:28, 68:02:01:01-68:02:05, 68:15, 68:18N, 68:25, 68:27-68:28, 68:31, 68:34, 68:40, 68:44, 68:48-68:49N, 68:51, 68:53-68:54, 68:60-68:62, 68:64, 68:67, 68:74, 68:76-68:78, 68:80-68:82, 68:86, 68:92, 68:97, **B*44:59:02, B*44:136, B*51:136, C*07:204, C*12:37**
92[72]	180 bp, 260 bp	1070 bp	*02:146, 02:173	
93[73]	130 bp, 250 bp, 295 bp	**800 bp**	*02:147, 02:157, 02:163, 02:339	*23:52, 24:73, 24:157, **B*15:173, B*18:63**
94[5,7,74]	110 bp, 210 bp, 360 bp	**800 bp**	*02:150, 02:197, 02:325	
95	135 bp	**800 bp**	*02:52, 02:105, 02:147, 02:151, 02:188, 02:339	*68:06, **C*12:94, C*14:48**
96[7,75]	135 bp, 255 bp	1070 bp	*02:153, 02:196, 02:366N	

[1]Alleles are assigned by the presence of specific PCR product(s). However, the sizes of the specific PCR products may be helpful in the interpretation of HLA-A*02 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 inherit feature of the primer pair(s) of a primer mix. More often it is due to other factors such as too low amount of DNA in the PCR reactions, taking too long time in setting up the PCR reactions, working at elevated room temperature or using thermal cyclers that are not pre-heated.

[2]The 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-A*02 subtyping.
In addition, wells number 6, 10, 13-16, 23, 26, 28, 30, 31, 34, 38, 42-44, 47, 50, 52, 54, 58, 59, 62, 63, 66, 67, 70, 71, 73, 74, 76, 77, 81, 83-91 and 93-95 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.
[3]For several HLA-A 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.
[4]Due to the sharing of sequence motifs between HLA-A alleles non-HLA-A*02 alleles will be amplified by primer mixes 1 to 6, 9 to 12, 16, 17, 19, 22 to 25, 27, 31, 34 to 37, 40 to 43, 45, 49, 51 to 53, 55, 60 to 64, 75, 83 to 85, 89, 91, 93 and 95. In addition, the B*15:67 and B*35:110 alleles will be amplified by primer mix 88, the B*15:173 and B*18:63 alleles will be amplified by primer mix 93, the B*44:59:02 allele will be amplified by primer mixes 16, 75 and 91, the B*44:136 allele will be amplified by primer mixes 16 and 91, the B*51:136 allele will be amplified by primer mixes 5, 10, 16 and 91, the C*03:82 allele will be amplified by primer mix 34, the C*07:204 allele will be amplified by primer mixes 5, 16, 24, 49 and 91, the C*12:37 allele will be amplified by primer mixes 10, 16 and 91 and the C12:94 and C*14:48 alleles will be amplified by primer mixes 41, 88 and 95.
[5]HLA-specific PCR products shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR products.
[6]The specific primers in primer mixes 3, 6, 31, 34, 39 and 55 may give rise to a lower yield of HLA-specific PCR product than the other A*02 primer mixes.
[7]Primer mixes 7, 33, 42, 46, 54, 57, 61, 81, 84, 94 and 96 have a tendency to giving rise to primer oligomer formation.
[8]Primer mixes 1, 11, 13, 14, 15, 33, 40, 41, 54, 59, 60, 61, 71, 75 and 79 may have tendencies of unspecific amplifications.
[9]Primer mixes 11 and 34 may give rise to a long fragment of approx. 600 bp in some HLA-A alleles. This band should not be considered in the interpretatation of HLA-A*02 typings.
[10]Primer mix 18 may faintly amplify the C*04:01:01:01-04:01:41 alleles.
[11]Primer mix 8: Specific PCR fragment of 415 bp in the A*02:02, 02:05:01-02:05:06, 02:14, 02:47, 02:63, 02:102, 02:115, 02:154-02:155, 02:172, 02:179, 02:186, 02:209, 02:229, 02:232, 02:271, 02:286, 02:320, 02:324, 02:337, 02:344, 02:359, 02:373N and 02:376 alleles. Specific PCR fragment of 505 bp in the A*02:32N allele.
[12]Primer mix 11: Specific PCR fragment of 225 bp in the A*02:89 allele. Specific PCR fragment of 350 bp in the A*02:04, 02:17:01-02:17:02, 02:57, 02:65, 02:108, 02:110, 02:152, 02:268, 02:300, 02:303 and 02:334 and the A*23:12, 24:28, 24:30, 24:42, 24:89, 29:19, 29:48, 32:08, 33:24, 68:05, 68:20 and 74:06 alleles.
[13]Primer mix 12: Specific PCR fragment of 195 bp in A*02:85 allele. Specific PCR fragment of 235 bp in the A*02:05:01-02:06:13, 02:08, 02:10, 02:14, 02:21, 02:28, 02:41, 02:44, 02:51, 02:54, 02:57, 02:61, 02:72, 02:79:01-02:79:02, 02:84, 02:91, 02:99, 02:106, 02:108, 02:122, 02:126-02:127, 02:137, 02:142-02:144, 02:154, 02:169-02:170, 02:172, 02:178-02:180, 02:229, 02:232, 02:244, 02:248, 02:259, 02:271, 02:278, 02:286, 02:290, 02:295, 02:300, 02:310, 02:324, 02:328, 02:330, 02:333, 02:337, 02:344, 02:355, 02:358-02:359, 02:373N, 02:376, 02:382, 02:387 and 02:398 and the A*11:06, 11:18, 26:03:01-26:03:02, 26:06, 26:21, 26:30, 26:78, 68:05, 68:15 and 68:20 alleles.
[14]Primer mix 14: Specific PCR fragment of 95 bp in A*02:91 and 02:322 alleles. Specific PCR fragment of 170 bp in the A*02:07:01-02:07:02, 02:15N, 02:18, 02:103, 02:112, 02:130, 02:191, 02:219, 02:255, 02:261, 02:265, 02:282, 02:319, 02:335, 02:369 and 02:403 alleles.
[15]Primer mix 15: Specific PCR fragment of 125 bp in the A*02:21 and 02:186 alleles. Specific PCR fragment of 265 bp in the A*02:87, 02:112, 02:129 and 02:136 alleles. Specific PCR fragment of 305 bp in the A*02:96 allele.
[16]Primer mix 16: Specific PCR fragment of 110 bp in the A*02:50, 02:73, 02:93, 02:122, 02:156, 02:172 and 02:279 and the A*11:119, 23:31, 23:45, 23:55, 24:15, 24:41, 24:51, 24:92, 26:10, 32:28, 68:02:01:01-68:02:05, 68:15, 68:18N, 68:25, 68:27-68:28, 68:31, 68:34, 68:40, 68:44, 68:48-68:49N,

68:51, 68:53-68:54, 68:60-68:62, 68:64, 68:67, 68:74, 68:77-68:78, 68:80-68:82, 68:86, 68:92 and 68:97 and in the B*44:59:02, 44:136, B*51:136, C*07:204 and C*12:37 alleles. Specific PCR fragment of 155 bp in the A*02:09 and 02:49 alleles.

[17]Primer mix 17: Specific PCR fragment of 205 bp in the A*02:83N allele. Specific PCR fragment of 360 bp in the A*02:10, 02:17:01-02:17:02, 02:39, 02:108, 02:110, 02:148, 02:242, 02:244, 02:268, 02:300, 02:303 and 02:398 and the A*23:12, 24:28, 24:30, 24:42 and 24:89 alleles.

[18]Primer mix 19: Specific PCR fragment of 125 bp in the A*02:12-02:13, 02:19, 02:27, 02:37-02:38, 02:44, 02:54, 02:142, 02:271, 02:280, 11:119, 24:02:01:01-24:02:15, 24:02:17-24:02:41, 24:02:43-24:05, 24:07-24:11N, 24:14-24:15, 24:17, 24:19-24:20, 24:23, 24:25-24:53, 24:55-24:64, 24:66-24:86N, 24:88-24:90N, 24:92-24:93, 24:95-24:106, 24:108-24:109, 24:111-24:124, 24:126-24:132N, 24:134-24:137, 24:139-24:157, 24:159, 24:161-24:166, 24:168-24:187, 24:189-24:203, 24:205-24:206, 24:209-24:210, 24:212, 24:214-24:226, 24:229-24:230, 33:19, 68:09 and 68:26 alleles. Specific PCR fragment of 165 bp in the A*02:283 allele.

[19]Primer mix 20: Specific PCR fragment of 135 bp in the A*02:200 allele. Specific PCR fragment of 295 bp in the A*02:49 allele.

[20]Primer mix 21: Specific PCR fragment of 220 bp in the A*02:15N and 02:356N alleles. Specific PCR fragment of 255 bp in the A*02:291 allele.

[21]Primer mix 23: Specific PCR fragment of 135 bp in the A*02:31, 02:161 and 02:387 alleles. Specific PCR fragment of 180 bp in the A*02:17:01-02:17:02, 02:108, 02:110, 02:268, 02:300 and 02:303 and the A* 24:94, 24:138, 24:188 and 24:228 alleles.

[22]Primer mix 24: Specific PCR fragment of 75 bp in the A*02:230 allele. Specific PCR fragment of 115 bp in the A*02:27 and the A*11:119, 24:59, 24:190, 24:210, 24:229 and in the C*07:204 alleles. Specific PCR fragment of 160bp in the A*02:233 and the A*24:219 alleles.

[23]Primer mix 25: Specific PCR fragment of 125 bp in the A*02:226N allele. Specific PCR fragment of 145 bp in the A*02:16 and 02:131 and the A*24:55 alleles. Specific PCR fragment of 165 bp in the A*02:283 allele.

[24]Primer mix 26: Specific PCR fragment of 125 bp in the A*02:33 allele. Specific PCR fragment of 165 bp in the A*02:52 allele. Specific PCR fragment of 260 bp in the A*02:198 allele.

[25]Primer mix 27: Specific PCR fragment of 95 bp in the A*02:28, 02:155 and 02:185 and the A*30:13, 30:16, 30:44 and 30:46 alleles. Specific PCR fragments of 145 bp in A*02:10, 02:50, 02:52, 02:73, 02:93, 02:95, 02:110, 02:114, 02:117, 02:122, 02:156, 02:242, 02:244, 02:279, 02:282, 02:300, 02:304 and 02:339 and the A*03:123, 11:16, 11:35, 11:57, 11:73, 24:131, 24:138, 24:188, 24:218 68:01:01:01-68:11N, 68:13-68:48 and 68:51-68:99 alleles.

[26]Primer mix 29: Specific PCR fragment of 220 bp in the A*02:45-02:46, 02:48, 02:56:01[W]-02:56:02[W], 02:78[W], 02:92, 02:103[W], 02:129, 02:169[W], 02:195[W], 02:358 and 02:369 alleles. Specific PCR fragment of 300 bp in A*02:180 allele.

[27]Primer mix 30: Specific PCR fragment of 130 bp in the A*02:163 allele. Specific PCR fragment of 160 bp in A*02:43N and 02:104 alleles.

[28]Primer mix 31: Specific PCR fragment of 95 bp in A*02:82N and in the A*23:08N alleles. Specific PCR fragments of 220 bp in A*02:45, 02:56:01-02:56:02, 02:78, 02:103, 02:169 and 02:195 alleles.

[29]Primer mix 32: Specific PCR fragment of 205 bp in the A*02:176 allele. Specific PCR fragment of 230 bp in the A*02:46, 02:48, 02:70 and 02:129 alleles. Specific PCR fragment of 255 bp in the A*02:47 allele.

[30]Primer mix 33: Specific PCR fragment of 230 bp in A*02:165, 02:168 and 02:400 alleles. Specific PCR fragments of 325 bp in A*02:19, 02:36-02:37, 02:54 and 02:255 alleles.

[31]Primer mix 34: Specific PCR fragment of 120 bp in the A*02:88N allele. Specific PCR fragment of 165 bp in the A*02:395N allele. Specific PCR fragment of 180 bp in the A*02:34-02:35:02, 02:56:01-02:56:02, 02:62, 02:78 and 02:103 and the A*30:01:01-30:01:07, 30:08, 30:11:01-30:11:02, 30:14L-30:20, 30:23-30:24, 30:26, 30:30-30:31, 30:35-30:43, 30:48-30:49, 30:52-30:56, 30:58-30:60, 30:62-30:63, 30:65 and 68:01:11 and in the C*03:82 alleles.

[32]Primer mix 35: Specific PCR fragment of 110 bp in A*02:40:01-02:40:02, 02:51 and 02:130 and the A*23:01:01-23:01:11, 23:02[W], 23:04-23:23, 23:25-23:33, 23:35-23:56, 24:24, 24:71, 31:67-31:68, 32:28, 33:32:01 and 68:51[W] alleles. Specific PCR fragment of 155 bp in A*02:77 allele.

[33]Primer mix 36: Specific PCR fragment of 85 bp in A*02:94N allele. Specific PCR fragments of 445 bp in the A*02:24:01-02:24:02, 02:65, 02:135, 02:137, 02:152 and 02:309 and the A*01:104, 03:09, 03:89, 03:108, 11:06, 11:18, 25:11, 26:03:01-26:03:02, 26:06, 26:21, 26:30, 26:36, 26:78, 29:19, 29:48, 30:13, 30:16, 30:44, 30:46, 32:08, 33:24, 74:06 and 80:01:01:01[W] alleles.

[34]Primer mix 38: Specific PCR fragment of 125 bp in A*02:41, 02:80, 02:117, 02:289 and 02:304 alleles. Specific PCR fragments of 225 bp in the A*02:351 allele.
[35]Primer mix 39: Specific PCR fragment of 170 bp in the A*02:18 allele. Specific PCR fragment of 260 bp in the A*02:159 and 02:293Q alleles. Specific PCR fragment of 300 bp in the A*02:170 and 02:364 alleles.
[36]Primer mix 40: Specific PCR fragment of 90 bp in the A*02:67 allele. Specific PCR fragment of 210 bp in the A*02:40:01-02:40:02, 02:51 and 02:130 and the A*29:22 and 33:22 alleles.
[37]Primer mix 43: Specific PCR fragment of 180 bp in the A*02:71 allele. Specific PCR fragment of 225 bp in the A*02:03:01-02:03:04, 02:22:01-02:22:02, 02:49, 02:104, 02:117, 02:136, 02:148, 02:191, 02:230, 02:253, 02:258, 02:264, 02:267, 02:281, 02:315, 02:323, 02:345, 02:355, 02:370 02:382 and 02:402 and the A*26:22, 66:09 and 68:83 alleles.
[38]Primer mix 44: Specific PCR fragment of 125 bp in the A*02:203 allele. Specific PCR fragment of 155 bp in the A*02:59 allele. Specific PCR fragment of 205 bp in the A*02:222N allele.
[39]Primer mix 45: Specific PCR fragment of 105 bp in the A*02:60:01-02:60:02 and 02:254 alleles. Specific PCR fragment of 185 bp in the A*02:19, 02:39, 02:44, 02:79:01-02:79:02, 02:86 and 02:400 and the A*01:20, 01:66, 03:95, 24:14 and 24:93 alleles.
[40]Primer mix 46: Specific PCR fragment of 70 bp in the A*02:66 allele. Specific PCR fragment of 205 bp in the A*02:61 allele.
[41]Primer mix 47: Specific PCR fragment of 165 bp in the A*02:63 allele. Specific PCR fragment of 205 bp in the A*02:144 and 02:205 alleles. Specific PCR fragment of 255 bp in the A*02:35:01-02:35:03, 02:48, 02:78, 02:90 and 02:331 alleles. Specific PCR fragment of 305 bp in the A*02:207 allele.
[42]Primer mix 49: Specific PCR fragment of 115 bp in the A*02:27 and 02:267 and the A*11:119, 24:59, 24:190, 24:210, 24:229 and in the C*07:204 allele. Specific PCR fragment of 145 bp in the A*02:38, 02:101:01-02:101:02 and 02:154 and the A*11:119, 23:10[w], 24:10:01-24:10:02, 24:46[w], 24:210, 26:10 and 68:61 alleles.
[43]Primer mix 54: Specific PCR fragment of 240 bp in the A*02:189 and 02:190 alleles. Specific PCR fragment of 350 bp in A*02:74:01-02:74:02 alleles.
[44]Primer mix 56: Specific PCR fragment of 150 bp in the A*02:175 and 02:181 alleles. Specific PCR fragment of 275 bp in A*02:53N, 02:81 and 02:124 alleles.
[45]Primer mix 57: Specific PCR fragment of 105 bp in the A*02:42 and 02:310 alleles. Specific PCR fragment of 145 bp in A*02:160 and 02:175 alleles.
[46]Primer mix 59: Specific PCR fragment of 145 bp in the A*02:97:01-02:97:02 alleles. Specific PCR fragment of 190 bp in A*02:305N allele.
[47]Primer mix 63: Specific PCR fragment of 95 bp in the A*02:259 and the A*03:51, 30:37 and 32:46 alleles. Specific PCR fragment of 160 bp in A*02:105 and 02:301N alleles.
[48]Primer mix 64: Specific PCR fragment of 125 bp in the A*02:106 and 02:145 and the A*24:72 alleles. Specific PCR fragment of 175 bp in A*02:164 and 02:221 and the A*01:44, 03:44 23:41 and 29:15 alleles. Specific PCR fragment of 260 bp in A*02:187 allele.
[49]Primer mix 65: Specific PCR fragment of 145 bp in the A*02:160 and 02:251 alleles. Specific PCR fragment of 185 bp in A*02:107 allele. Specific PCR fragment of 250 bp in A*02:202 allele.
[50]Primer mix 67: Specific PCR fragment of 105 bp in the A*02:177 allele. Specific PCR fragment of 130 bp in A*02:111 allele. Specific PCR fragment of 180 bp in A*02:330 allele. Specific PCR fragment of 300 bp in A*02:350N allele.
[51]Primer mix 68: Specific PCR fragment of 210 bp in the A*02:113N and 02:321N alleles. Specific PCR fragment of 260 bp in A*02:184 allele.
[52]Primer mix 69: Specific PCR fragment of 170 bp in the A*02:114, 02:246 and 02:279 alleles. Specific PCR fragment of 225 bp in A*02:260 allele. Specific PCR fragment of 335 bp in A*02:166 allele.
[53]Primer mix 70: Specific PCR fragment of 125 bp in the A*02:115 allele. Specific PCR fragment of 180 bp in A*02:367 allele. Specific PCR fragment of 285 bp in A*02:53N, 02:192 and 02:269 alleles.
[54]Primer mix 72: Specific PCR fragment of 110 bp in the A*02:183 allele. Specific PCR fragment of 230 bp in the A*02:189 allele. Specific PCR fragment of 260 bp in the A*02:19, 02:44, 02:118, 02:135, 02:149, 02:152, 02:190, 02:309 and 02:402 alleles.
[55]Primer mix 73: Specific PCR fragment of 80 bp in the A*02:263 allele. Specific PCR fragment of 200 bp in the A*02:119 allele. Specific PCR fragment of 250 bp in A*02:158 allele.

[56]Primer mix 74: Specific PCR fragment of 175 bp in the A*02:120 allele. Specific PCR fragment of 250 bp in A*02:187 and 02:223N alleles.
[57]Primer mix 75: Specific PCR fragment of 100 bp in the A*02:373N and the A*68:49N alleles. Specific PCR fragment of 165 bp in the A*02:166 allele. Specific PCR fragment of 205 bp in the A*02:121 and the A*23:47, 68:14 and 68:81 and in the B*44:59:02 alleles.
[58]Primer mix 77: Specific PCR fragment of 85 bp in the A*02:123, 02:295 and 02:344 alleles. Specific PCR fragment of 110 bp in the A*02:162 allele.
[59]Primer mix 78: Specific PCR fragment of 75 bp in the A*02:193 allele. Specific PCR fragment of 130 bp in the A*02:213 allele. Specific PCR fragment of 240 bp in the A*02:124 allele.
[60]Primer mix 79: Specific PCR fragment of 215 bp in the A*02:125N and 02:227N alleles. Specific PCR fragment of 270 bp in A*02:53N, 02:184 and 02:192 alleles.
[61]Primer mix 80: Specific PCR fragment of 90 bp in the A*02:214 allele. Specific PCR fragment of 135 bp in the A*02:194 allele. Specific PCR fragment of 230 bp in A*02:126 allele.
[62]Primer mix 81: Specific PCR fragment of 110 bp in the A*02:183 allele. Specific PCR fragment of 235 bp in A*02:165 and 02:400 alleles. Specific PCR fragment of 315 bp in A*02:127, 02:167 and 02:299 alleles.
[63]Primer mix 82: Specific PCR fragment of 130 bp in the A*02:131 allele. Specific PCR fragment of 255 bp in the A*02:291 allele. Specific PCR fragment of 295 bp in the A*02:199 allele.
[64]Primer mix 83: Specific PCR fragment of 120 bp in the A*02:132 and 02:215 allele. Specific PCR fragment of 240 bp in the A*02:237 and the A*03:95 alleles.
[65]Primer mix 84: Specific PCR fragment of 180 bp in the A*02:133 and 02:164 and the A*01:44 and 03:44 alleles. Specific PCR fragment of 205 bp in the A*02:315 allele. Specific PCR fragment of 245 bp in the A*02:250N allele.
[66]Primer mix 85: Specific PCR fragment of 170 bp in the A*02:314N and 02:376 and the A*32:48N allele. Specific PCR fragment of 260 bp in the A*02:134 allele.
[67]Primer mix 86: Specific PCR fragment of 180 bp in the A*02:135 and 02:309 alleles. Specific PCR fragment of 255 bp in the A*02:174 allele. Specific PCR fragment of 310 bp in the A*02:228 allele.
[68]Primer mix 87: Specific PCR fragment of 155 bp in the A*02:138 and 02:181 alleles. Specific PCR fragment of 210 bp in the A*02:284N allele.
[69]Primer mix 88: Specific PCR fragment of 135 bp in the A*02:188 and 02:235 and in the B*15:67, B*35:110, C*12:94 and C*14:48 alleles. Specific PCR fragment of 240 bp in the A*02:139 allele.
[70]Primer mix 89: Specific PCR fragment of 120 bp in the A*02:140 and 02:182 and the A*24:133, 31:48 and 33:15 alleles. Specific PCR fragment of 200 bp in the A*02:227N allele.
[71]Primer mix 90: Specific PCR fragment of 100 bp in the A*02:72, 02:206 and 02:275 alleles. Specific PCR fragment of 130 bp in the A*02:161 allele. Specific PCR fragment of 190 bp in the A*02:141 allele.
[72]Primer mix 92: Specific PCR fragment of 180 bp in the A*02:173 allele. Specific PCR fragment of 260 bp in the A*02:146 allele.
[73]Primer mix 93: Specific PCR fragment of 130 bp in the A*02:163 allele. Specific PCR fragment of 250 bp in the A*02:147 and 02:339 and the A*23:52, 24:73 and 24:157 and in the B*15:173 and B*18:63 alleles. Specific PCR fragment of 295 bp in the A*02:157 allele.
[74]Primer mix 94: Specific PCR fragment of 110 bp in the A*02:325 allele. Specific PCR fragment of 210 bp in the A*02:150 allele. Specific PCR fragment of 360 bp in A*02:197 allele.
[75]Primer mix 96: Specific PCR fragment of 135 bp in the A*02:196 allele. Specific PCR fragment of 255 bp in A*02:153 and 02:366N alleles.
[76]Primer mix 1 may amplify the A*02:07:01-02:07:02 alleles.
'w', might be weakly amplified.

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 29S **Lot-specific information**

INTERPRETATION TABLE

HLA-A*02 high resolution SSP typing

Amplification patterns of the HLA-A*02:01 to *02:403 alleles

Well[19]	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
Length of spec.	360	240	175	80	125	75	175	415	105	115	225	195	145	95	125	110	205	175	125	135	220	160	135	75	125	125	95	235	220	130	95	205	230	120	110	85	140	125	170	90	185	225	180	125	105	70	165	115
PCR product(s)								505			350	235		170	265	155	360		165	295	255		180	115	145	165	145		300	160	220	230	325	165	155	445		225	260	210			225	155	185	205	205	
															305									160	165	260						255		180					300					205			255	
																																															305	
Length of int. pos. control[1]	800	1070	1070	1070	1070	800	1070	1070	1070	800	1070	1070	800	800	800	800	1070	1070	1070	1070	1070	1070	800	1070	1070	800	1070	800	1070	800	800	1070	1070	800	1070	1070	1070	800	1070	1070	1070	800	800	800	1070	1070	800	1070
Well No. / HLA-A allele[2,3]	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
***02:01:01:01**, 02:01:01:03-**02:01:02**, **02:01:04**-02:01:15, **02:01:18**-02:01:19, 02:01:21-**02:01:51,** 02:01:53-02:01:62, 02:01:64-02:01:73, 02:01:75-02:01:81, **02:01:84**-02:01:86, 02:201, 02:204, 02:208, 02:210, 02:212, 02:216-02:218, 02:220, 02:231, 02:234, 02:236, 02:238-02:241, 02:249, 02:252, 02:256-02:257, 02:262, 02:266, 02:270, 02:272-02:273, 02:276-02:277, 02:285, 02:287-02:288, 02:292, 02:294, 02:296, 02:302, 02:306-02:307, 02:311-02:313, 02:316, 02:318, 02:326-02:327, 02:329, 02:332, 02:336, 02:340-02:343, 02:346, 02:348-02:349, 02:352-02:354, 02:357, 02:360, 02:362-02:363, 02:365, 02:368, 02:374-02:375, 02:377, 02:379-02:381, 02:383-02:386, 02:388-02:392, 02:396-02:397, 02:401	+	+	+	+	+																																											
***02:01:01:02L**	+	+	+	+	+																																											
***02:01:03**, 02:243, 02:394	+		+	+	+																																											
*02:01:17, **02:01:52,** 02:01:63, 02:01:74, 02:372, 02:378	+	+	+		+																																											
*02:01:83, **02:30**, 02:399	+	+	+	+	+																																											
***02:02,** 02:209, 02:320	+	+	+			+	+	+																																	+							
***02:03:01**, **02:03:03**-02:03:04, 02:253, 02:258, 02:264, 02:281, 02:345, 02:370	+	+	+	+		+			+	+																																	+					
*02:03:02	+	+	+	+		+			w	w																																	+					
Well No. / HLA-A allele[2,3]	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

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 29S **Lot-specific information**

INTERPRETATION TABLE

HLA-A*02 high resolution SSP typing

Amplification patterns of the HLA-A*02:01 to *02:403 alleles

Well[19]	Length of spec.	PCR product(s)	Length of int. pos. control[1]	Well No.	HLA-A allele[2,3]
4 5 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 7 7 7 7 7 7 7 7 8 8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9	115 145 410 185 225 240 200 150 105 255 145 345 185 180 95 125 145 170 105 210 170 125 260 110 80 175 100 220 85 75 215 90 110 130 120 180 170 180 155 135 120 100 110 180 130 110 135 135	145 350 275 145 190 160 175 260 185 250 130 180 260 225 180 230 335 285 260 200 250 165 205 110 130 270 135 240 230 235 255 240 205 315 295 245 260 255 210 240 310 200 130 190 260 250 210 295 360 255	1070 800 1070 800 1070 800 1070 1070 1070 800 800 1070 1070 800 800 1070 1070 800 800 1070 1070 800 800 1070 800 800 1070 800 1070 1070 1070 800 1070 800 800 800 800 800 800 800 800 800 800 800 800 1070 800 800 800 1070	4 5 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 7 7 7 7 7 7 7 7 8 8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9	Well No.
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6					HLA-A allele[2,3]
					***02:01:01:01**, 02:01:01:03-**02:01:02**, **02:01:04**-02:01:15, **02:01:18**-02:01:19, 02:01:21-**02:01:51,** 02:01:53-02:01:62, 02:01:64-02:01:73, 02:01:75-02:01:81, **02:01:84**-02:01:86, 02:201, 02:204, 02:208, 02:210, 02:212, 02:216-02:218, 02:220, 02:231, 02:234, 02:236, 02:238-02:241, 02:249, 02:252, 02:256-02:257, 02:262, 02:266, 02:270, 02:272-02:273, 02:276-02:277, 02:285, 02:287-02:288, 02:292, 02:294, 02:296, 02:302, 02:306-02:307, 02:311-02:313, 02:316, 02:318, 02:326-02:327, 02:329, 02:332, 02:336, 02:340-02:343, 02:346, 02:348-02:349, 02:352-02:354, 02:357, 02:360, 02:362-02:363, 02:365, 02:368, 02:374-02:375, 02:377, 02:379-02:381, 02:383-02:386, 02:388-02:392, 02:396-02:397, 02:401
	+				***02:01:01:02L**
					***02:01:03**, 02:243, 02:394
					*02:01:17, **02:01:52,** 02:01:63, 02:01:74, 02:372, 02:378
		+			*02:01:83, **02:30**, 02:399
					***02:02,** 02:209, 02:320
					***02:03:01**, **02:03:03**-02:03:04, 02:253, 02:258, 02:264, 02:281, 02:345, 02:370
					*02:03:02
4 5 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 7 7 7 7 7 7 7 7 8 8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9					Well No.
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6					HLA-A allele[2,3]

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 29S **Lot-specific information**

Well No.										1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4
HLA-A allele[2,3]	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8
***02:04**	+	+		+	+						+																																				
***02:05:01**-02:05:06, 02:229, 02:232, 02:286, 02:324, 02:337, 02:359	+		+			+	+	+				+	+																											+							
***02:06:01-02:06:11**, 02:06:13, 02:248, 02:278, 02:290, 02:328, 02:333	+		+	+	+							+																																			
*02:06:12	+		+		+							+																																				
***02:07:01**-02:07:02, 02:219, 02:261, 02:265, 02:335		+	+	+	+									+																																		
***02:08**	+		+			+	+					+	+														+														+							
***02:09**	+	+	+	+	+											+																																	
***02:10,** 02:244			+	+	+							+					+								+																							
***02:11:01,** 02:11:03-02:11:04, 02:297-02:298, 02:308			+	+	+													+																															
***02:11:02**			+	+	+																																											
***02:12**	+	+	+	+															+																														
***02:13**	+	+	+	+						+									+																														
***02:14**	+		+		+		+	+				+	+																											+								
*02:15N		+	+	+	+									+							+																												
*02:16	+	+	+	+	+																				+																							
***02:17:01**-02:17:02, 02:303		+		+	+						+						+					+																			+							
*02:18		+	+	+	+									+																																			
*02:19	+	+		+															+			+																						+				
***02:20:01**-02:20:02	+	+	+	+	+																						+																					
*02:21	+		+	+	+							+			+																																	
***02:22:01**-02:22:02	+	+	+	+		+																																				+							
***02:24:01**-02:24:02	+	+	+	+																																												
***02:25**	+	+	+	+	+				+																																							
*02:26	+	+	+	+	+					+																																						
***02:27**	+	+	+	+															+				+																									
***02:28**	+		+	+	+							+												+																								
***02:29**	+	+	+	+	+													+																														
*02:31	+	+	+	+	+																	+																									
*02:32N	+	+	+	+	+			+																																								
***02:33**		+	+	+	+																				+																							
*02:34	+	+	+	+	+																										+											+					
***02:35:01**			+	+	+																										+											+				+	
*02:35:02			+		+																										+											+				+	
*02:35:03			+	+	+																																					+				+	
***02:36**	+	+	+	+	+																		+								+															
*02:37	+	+	+	+															+				+								+															
***02:38**	+	+	+	+					+	+									+																			+									
***02:39**		+		+	+												+																												+				
***02:40:01**-02:40:02	+	+	+	+	+																																											
***02:41**	+		+	+	+							+																																				
***02:42**	+	+	+	+	+																																											
*02:43N	+	+	+	+	+																									+																	
***02:44**	+			+								+							+																									+				
*02:45	+	+	+	w	+																								+		+																
*02:46	+	+	+	+	+																								+			+															
*02:47		+	+			+	+	+																							+										+					
***02:48**			+		+																								+		+														+		
***02:49**	+	+	+	+		+										+				+																								+					
*02:50	+	+	+			+										+									+																						
***02:51**	+		+	+	+							+																																				
*02:52	+	+	+	+	+																					+	+																				
***02:53N**	+	+	+	+	+																																										
Well No.										1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4
HLA-A allele[2,3]	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 29S **Lot-specific information**

4 5 5 5	5 5 5 5	5 5 5 6	6 6 6 6	6 6 6 6	6 7 7 7	7 7 7 7	7 7 7 8	8 8 8 8	8 8 8 8	8 9 9 9	9 9 9 9	Well No.
9 0 1 2	3 4 5 6	7 8 9 0	1 2 3 4	5 6 7 8	9 0 1 2	3 4 5 6	7 8 9 0	1 2 3 4	5 6 7 8	9 0 1 2	3 4 5 6	HLA-A allele[2,3]
												***02:04**
												***02:05:01**-02:05:06, 02:229, 02:232, 02:286, 02:324, 02:337, 02:359
												***02:06:01-02:06:11**, 02:06:13, 02:248, 02:278, 02:290, 02:328, 02:333
												*02:06:12
												***02:07:01**-02:07:02, 02:219, 02:261, 02:265, 02:335
												***02:08**
												***02:09**
												***02:10,** 02:244
		+										***02:11:01,** 02:11:03-02:11:04, 02:297-02:298, 02:308
		+										***02:11:02**
	+											***02:12**
												***02:13**
	+											***02:14**
												*02:15N
	+											*02:16
												***02:17:01**-02:17:02, 02:303
												*02:18
					+							*02:19
												***02:20:01**-02:20:02
												*02:21
												***02:22:01**-02:22:02
												***02:24:01**-02:24:02
		+										***02:25**
												*02:26
+												***02:27**
												***02:28**
												***02:29**
												*02:31
												*02:32N
												***02:33**
												*02:34
		+										***02:35:01**
		+										*02:35:02
		+										*02:35:03
												***02:36**
												*02:37
+												***02:38**
												***02:39**
		+										***02:40:01**-02:40:02
												***02:41**
												***02:42**
												*02:43N
					+							***02:44**
												*02:45
												*02:46
												*02:47
		+										***02:48**
												***02:49**
				+	+		+				+	*02:50
		+										***02:51**
											+	*02:52
		+			+		+					***02:53N**
4 5 5 5	5 5 5 5	5 5 5 6	6 6 6 6	6 6 6 6	6 7 7 7	7 7 7 7	7 7 7 8	8 8 8 8	8 8 8 8	8 9 9 9	9 9 9 9	Well No.
9 0 1 2	3 4 5 6	7 8 9 0	1 2 3 4	5 6 7 8	9 0 1 2	3 4 5 6	7 8 9 0	1 2 3 4	5 6 7 8	9 0 1 2	3 4 5 6	HLA-A allele[2,3]

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 29S **Lot-specific information**

Well No.										101	101	101	101	101	101	101	101	102	102	102	102	102	102	102	102	103	103	103	103	104	104	104	104	104	104	104	104
HLA-A allele[2,3]	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8
***02:54**	+		+	+								+							+			+							+									
***02:55**	+	+	+		+													+																				
*02:56:01	+	+	+	w	+													+	w		+			+														
*02:56:02	+	+	+		+													+	w		+			+														
*02:57	+			+	+						+	+																					+					
***02:58**	+	+	+	+	+																												+					
*02:59, **02:203**	+	+	+	+	+																															+		
***02:60:01**-02:60:02, 02:254	+	+	+	+	+																																+	
***02:61**	+		+	+	+							+																								+	
*02:62	+	+	+	+	+													+																				
*02:63	+	+	+			+	+	+																									+					
***02:64**	+	+	+	+	+																																	+
*02:65	+	+		+							+																											
*02:66	+	+	+	+	+																																+	
*02:67	+	+	+	+	+																																	
*02:68	+	+	+	+	w																																	
*02:69			+	+	+												+																					
*02:70	+	+	+	+	+																																	
*02:71	+	+	+	+	+																																	
*02:72	+		+	+	+							+																										
*02:73	+	+	+	+	+										+																							
*02:74:01-02:74:02	+	+	+	+	+																																	
*02:75	+	+	+	+	+																																	
***02:76:01**-02:76:02	+		+	+	+																																	
***02:77**	+	+	+	+	+																																	
*02:78			+	w	+																																	
*02:79:01-02:79:02	+			+	+							+																										
***02:80**	+	+	+	+	+																																	
*02:81			+	+	+																																	
***02:82N**	+	+	+	+	+																																	
*02:83N	+	+	+	+	+												+																					
***02:84**	+		+	+	+							+	+																									
***02:85**	+	+	+	+	+							+																										
***02:86**	+	+		+	+																																	
***02:87**			+	+	+										+																							
*02:88N	+	+	+	+	+																																	
*02:89	+	+	+	+	+						+																										
***02:90**, 02:331			+	+	+																																	
*02:91	+		+	+	+							+		+																							
*02:92	+	+	+	+	+														+																			
***02:93**	+	+	+	+	+											+																						
*02:94N	+	+	+	+	+																																	
*02:95	+	+	+	+	+																																	
***02:96**	+	+	+	+	+											+																						
*02:97:01-02:97:02, 02:305N[4]	+	+	+	+	+																																	
*02:99	+		+	+	+					+		+																										
*02:101:01-**02:101:02**	+	+	+	+	+																																	
***02:102**	+	+	+	+		+	+	+																														
*02:103		+	+		+									+																								
*02:104	+	+	+	+		+																																
***02:105**	+	+	+	+	+																																	
*02:106	+		+	+	+							+																										
*02:107, **02:202**, **02:251**[5]	+	+	+	+	+																																	
*02:108				+	+						+	+					+			+												+					
*02:109	+	+	+	+	+																																	
***02:110**		+		+	+						+						+			+												+					
*02:111, 02:350N[6]	+	+	+	+	+																																	
*02:112			+	+	+									+	+																						
***02:113N**	+	+	+	+	+																																	
***02:114**	+	+	+	+	+													+																				
Well No.										101	101	101	101	101	101	101	101	102	102	102	102	102	102	102	102	103	103	103	103	104	104	104	104	104	104	104	104
HLA-A allele[2,3]	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 29S **Lot-specific information**

4 5 5 5	5 5 5 5	5 5 5 6	6 6 6 6	6 6 6 6	6 7 7 7	7 7 7 7	7 7 7 8	8 8 8 8	8 8 8 8	8 9 9 9	9 9 9 9	Well No.
9 0 1 2	3 4 5 6	7 8 9 0	1 2 3 4	5 6 7 8	9 0 1 2	3 4 5 6	7 8 9 0	1 2 3 4	5 6 7 8	9 0 1 2	3 4 5 6	HLA-A allele[2,3]
												***02:54**
												***02:55**
												*02:56:01
												*02:56:02
	+											*02:57
	+											***02:58**
												*02:59, **02:203**
												02:60:01-02:60:02, 02:254
												***02:61**
												*02:62
												*02:63
												***02:64**
+		+										*02:65
												*02:66
												*02:67
												*02:68
		+	+									*02:69
												*02:70
												*02:71
										+		*02:72
		+	+								+	*02:73
	+											*02:74:01-02:74:02
												*02:75
+												***02:76:01***-02:76:02
												***02:77**
		+										*02:78
												*02:79:01-02:79:02
+												***02:80**
												*02:81
	+											***02:82N**
												*02:83N
												***02:84**
												***02:85**
												***02:86**
												***02:87**
												*02:88N
												*02:89
		+										***02:90***, 02:331
												*02:91
												*02:92
											+	***02:93**
												*02:94N
												*02:95
												***02:96**
		+										*02:97:01-02:97:02, 02:305N[4]
	+											*02:99
+												*02:101:01-**02:101:02**
												***02:102**
												*02:103
												*02:104
			+								+	***02:105**
				+								*02:106
					+							*02:107, **02:202**, **02:251**[5]
	+											*02:108
				+								*02:109
	+											***02:110**
				+								*02:111, 02:350N[6]
												*02:112
					+							***02:113N**
	+				+							***02:114**
4 5 5 5	5 5 5 5	5 5 5 6	6 6 6 6	6 6 6 6	6 7 7 7	7 7 7 7	7 7 7 8	8 8 8 8	8 8 8 8	8 9 9 9	9 9 9 9	Well No.
9 0 1 2	3 4 5 6	7 8 9 0	1 2 3 4	5 6 7 8	9 0 1 2	3 4 5 6	7 8 9 0	1 2 3 4	5 6 7 8	9 0 1 2	3 4 5 6	HLA-A allele[2,3]

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 29S **Lot-specific information**

Well No.										1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
HLA-A allele[2,3]	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8
*02:115	+	+	+			+	+	+																															+							
*02:116	+	+	+	+	+																																								
*02:117	+	+	+	+		+			+	+																+														+					
02:118	+	+	+	+	+																																								
02:119*, *02:263[7]	+	+	+	+	+																																								
*02:120, 02:223N[8]	+	+	+	+	+																																								
02:121	+	+	+	+	+																																								
02:122	+		+			+						+				+										+																			
02:123	+	+	+	+	+																																								
*02:124			+	+	+																																								
02:125N	+	+	+	+	+																																								
*02:126	+		+	+	+							+																																	
*02:127	+		+	+	+							+																																	
02:128			+	+	+													+									+																		
02:129			+		+										+														+		+														
*02:130		+	+	+	+									+																		+					+								
02:131	+	+	+	+	+																				+																				
*02:132, ***02:215***, ***02:237***[9]	+	+	+	+	+																																								
02:133	+	+	+	+	+																																								
*02:134, 02:314N[10]	+	+	+	+	+																																								
*02:135	+	+		+																																+									
02:136			+	+		+									+																								+						
*02:137	+		+	+								+																									+								
*02:138, 02:284N[11]	+	+	+	+	+																																								
02:139*, *02:235[12]	+	+	+	+	+																																								
*02:140	+	+	+	+	+																																								
02:141*, *02:275[13]	+	+	+	+	+																																								
*02:142	+		+	+								+							+																										
*02:143	+		+	+	+							+																																	
*02:144	+		+		+							+																																+	
*02:145, ***02:221***	+	+	+	+	+																																								
02:146			+	+	+																																								
02:147	+	+	+	+	+																																								
*02:148		+	+	+		+			+	+							+																								+				
02:149	+	+		+	+																																								
*02:150, ***02:197***, ***02:325***[14]	+	+	+	+	+																																								
02:151	+	+	+	+	+																																								
*02:152	+	+		+							+																										+								
02:153, 02:196[15]	+	+	+	+	+																																								
02:154	+		+			+	+	+				+	+																								+				+				
*02:155	+	+	+			+	+	+																		+															+				
*02:156	+	+		+	+											+										+																			
*02:157	+	+	+	+	+																																								
02:158	+	+	+	+	+																																								
*02:159, 02:293Q, 02:364	+	+	+	+	+																																								
02:160	+	+	+	+	+																																								
02:161	+	+	+	+	+																+																								
*02:162	+	+	+	+	+																																								
02:163	+	+	+	+	+																								+																
02:164	+	+	+	+	+																																								
02:165	+	+	+	+	+																												+											
02:166	+	+	+	+	+																																								
*02:167, ***02:299***	+	+	+	+	+																																								
*02:168	+	+	+	+	+																												+											
02:169	+		+		+							+																	+	W		+												
*02:170	+		+	+	+							+																										+								
Well No.										1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
HLA-A allele[2,3]	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 29S **Lot-specific information**

4 5 5 5	5 5 5 5	5 5 5 6	6 6 6 6	6 6 6 6	6 7 7 7	7 7 7 7	7 7 7 8	8 8 8 8	8 8 8 8	8 9 9 9	9 9 9 9	**Well No.**
9 0 1 2	3 4 5 6	7 8 9 0	1 2 3 4	5 6 7 8	9 0 1 2	3 4 5 6	7 8 9 0	1 2 3 4	5 6 7 8	9 0 1 2	3 4 5 6	**HLA-A allele[2,3]**
					+							*02:115
						+						*02:116
		+										*02:117
							+					***02:118**
												***02:119, 02:263[7]**
						+						*02:120, 02:223N[8]
							+					***02:121**
				+	+							***02:122**
								+				***02:123**
		+										*02:124
												***02:125N**
												*02:126
								+				*02:127
				+								***02:128**
												***02:129**
			+									*02:130
												***02:131**
												*02:132, **02:215**, **02:237[9]**
												***02:133**
												*02:134, 02:314N[10]
												*02:135
												***02:136**
												*02:137
												*02:138, 02:284N[11]
												***02:139, 02:235[12]**
												*02:140
												***02:141, 02:275[13]**
												*02:142
												*02:143
												*02:144
				+								*02:145, **02:221**
												***02:146**
												***02:147**
												*02:148
												***02:149**
												*02:150, **02:197**, **02:325[14]**
												***02:151**
												*02:152
+												***02:153**, 02:196[15]
												***02:154**
												*02:155
												*02:156
												*02:157
												***02:158**
												*02:159, 02:293Q, 02:364
												***02:160**
												***02:161**
												*02:162
												***02:163**
												***02:164**
												***02:165**
												***02:166**
												*02:167, **02:299**
												*02:168
												***02:169**
												*02:170
4 5 5 5	5 5 5 5	5 5 5 6	6 6 6 6	6 6 6 6	6 7 7 7	7 7 7 7	7 7 7 8	8 8 8 8	8 8 8 8	8 9 9 9	9 9 9 9	**Well No.**
9 0 1 2	3 4 5 6	7 8 9 0	1 2 3 4	5 6 7 8	9 0 1 2	3 4 5 6	7 8 9 0	1 2 3 4	5 6 7 8	9 0 1 2	3 4 5 6	**HLA-A allele[2,3]**

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 29S **Lot-specific information**

Well No.										1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4
HLA-A allele[2,3]	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8
*02:171:01-02:171:02	+	+	+	+	+				+	+																																					
02:172	+		+			+	+	+				+	+			+																								+							
02:173	+	+	+	+	+																																										
*02:174, **02:228**	+	+	+	+	+																																										
*02:175	+	+	+	+	+																																										
*02:176	+	+	+		+																																										
02:177	+	+	+	+	+																																										+
*02:178	+		+	+	+							+																																			+
*02:179	+		+			+	+	+				+	+																												+							
***02:180,** 02:358*[16]	+		+	+	+							+																				+																
*02:181	+	+	+	+	+																																										
02:182	+	+	+	+																																										
02:183	+	+	+	+	+																																										
*02:184	+	+	+	+	+																																										
*02:185	+	+	+		+																							+																				
02:186	+	+	+			+	+	+							+																										+							
*02:187	+	+	+	+	+																																										
02:188	+	+	+	+	+																																										
02:189	+	+	+	+	+																																										
02:190	+	+		+	+																																										
*02:191		+	+	+		+									+																												+						
*02:192	+	+	+	+	+																																										
*02:193, **02:213***[17]	+	+	+	+	+																																										
02:194	+	+		+	+																																										
*02:195	+	+	+		+																							+		w		+																
02:198	+	+	+	+	+																						+																				
02:199	+	+	+	+	+																																										
02:200	+	+	+	+	+															+																												
02:205	+	+	+		+																																									+		
02:206	+	+	+		+																																										
02:207	+	+	+	+	+																																									+		
02:211:01	+	+	+	+	+																																										
*02:211:02		+	+	+	+																																										
02:214	+	+	+	+	+																																										
*02:222N	+	+	+	+																																										+		
*02:224, 02:371	+	+		+	+																																										
*02:225N	+	+	+	+	+																																										
*02:226N	+	+	+	+																							+																				
02:227N	+	+	+	+	+																																										
02:230	+	+	+	+		+			+	+														+																				+			
02:233	+	+	+	+	+																			+																							
02:242		+	+	+	+												+											+																				
02:245	+	+	+	+	+																																										
*02:246	+	+	+	+	+																																										
*02:247			+	+	+																																										
*02:250N		+	+	+	+																																										
*02:255		+	+	+	+										+									+																							
02:259	+		+	+	+							+																																			
02:260	+	+	+	+	+																																										
02:267	+	+	+	+		+			+																																				+		
*02:268		+		+	+						+						+							+																							
02:269**, **02:367[18]	+	+	+	+	+																																										
*02:271	+		+					+				+	+						+																							+						
*02:274	+	+	+	+																																											
*02:279	+	+	+	+	+													+											+																			
*02:280	+	+	+	+					+	+										+																											
*02:282		+	+	+	+									+														+																				
02:283	+	+	+	+	+															+							+																				
02:289	+	+	+	+	+																																										
02:291	+	+	+	+	+																+																										
Well No.										1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4
HLA-A allele[2,3]	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 29S **Lot-specific information**

4 5 5 5	5 5 5 5	5 5 5 6	6 6 6 6	6 6 6 6	6 7 7 7	7 7 7 7	7 7 7 8	8 8 8 8	8 8 8 8	8 9 9 9	9 9 9 9	**Well No.**
9 0 1 2	3 4 5 6	7 8 9 0	1 2 3 4	5 6 7 8	9 0 1 2	3 4 5 6	7 8 9 0	1 2 3 4	5 6 7 8	9 0 1 2	3 4 5 6	**HLA-A allele[2,3]**
												*02:171:01-02:171:02
										+		***02:172***
											+	***02:173***
									+			*02:174, **02:228***
		+	+									*02:175
												*02:176
				+								***02:177***
												*02:178
			+									*02:179
												***02:180,** 02:358[16]*
		+							+			*02:181
										+		***02:182***
					+			+				***02:183***
				+			+					*02:184
												*02:185
												02:186
			+			+						*02:187
									+		+	***02:188***
	+				+							***02:189***
	+				+							***02:190***
												*02:191
					+		+					*02:192
							+					*02:193, **02:213[17]***
								+				***02:194***
												*02:195
												02:198
								+				***02:199***
												02:200
												02:205
										+		***02:206***
												02:207
											+	***02:211:01***
											+	*02:211:02
							+					***02:214***
												*02:222N
												*02:224, 02:371
						+						*02:225N
		+										*02:226N
							+			+		***02:227N***
												02:230
												02:233
												02:242
				+	+							***02:245***
	+					+						*02:246
												*02:247
									+			*02:250N
												*02:255
			+									***02:259***
						+						***02:260***
+												***02:267***
												*02:268
						+						***02:269**, **02:367[18]***
												*02:271
												*02:274
	+					+					+	*02:279
												*02:280
												*02:282
												02:283
												02:289
								+				***02:291***
4 5 5 5	5 5 5 5	5 5 5 6	6 6 6 6	6 6 6 6	6 7 7 7	7 7 7 7	7 7 7 8	8 8 8 8	8 8 8 8	8 9 9 9	9 9 9 9	**Well No.**
9 0 1 2	3 4 5 6	7 8 9 0	1 2 3 4	5 6 7 8	9 0 1 2	3 4 5 6	7 8 9 0	1 2 3 4	5 6 7 8	9 0 1 2	3 4 5 6	**HLA-A allele[2,3]**

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 29S **Lot-specific information**

Well No.										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
HLA-A allele[2,3]	1	2	3	4	5	6	7	8	9	01	01	02	03	04	05	06	07	08	09	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
*02:295	+		+	+	+							+																																				
*02:300				+	+						+	+							+			+																								
*02:301N	+	+	+	+	+																																									
*02:304	+	+	+	+	+																																									
*02:309	+	+		+																																										
*02:310	+		+	+	+							+																																		
02:315	+	+	+			+			+	+																																			
*02:317, 02:347, 02:361		+	+	+	+																																									
*02:319			+	+	+									+																																
*02:321N	+	+	+		+																																									
*02:322	+	+	+	+	+									+																																
02:323	+	+	+	+		+				+																																			
02:330	+		+	+	+							+																																		
*02:334	+	+		+	+						+																																			
02:338	+	+		+	+																																									
*02:339	+	+	+	+	+																																									
02:344	+		+			+	+	+				+	+																																
02:351		+	+	+	+																																									
*02:355	+		+	+		+			+	+		+																																		
*02:356N	+	+	+	+	+																+																								
*02:366N	+		+	+	+																																									
*02:369		+	+	+	+									+																																
*02:373N	+		+			+	+	+				+	+																																
*02:376	+		+			+	+	+				+	+																																
*02:382	+		+			+						+	+																																
*02:387	+		+	+	+							+											+																						
*02:395N	+	+	+	+	+															+																									
*02:398			+	+	+							+							+																									
*02:400	+	+		+	+																																									
*02:402	+	+	+	+						+																																			
*02:403		+	+	+										+																																
*01:13, 01:17, 03:01:01:01-03:01:02, 03:01:04-03:07, 03:10-03:11N, 03:13-03:16, 03:17:02-03:22:02, 03:23:02-03:31, 03:33-03:35, 03:37-03:40, 03:42-03:43, 03:45-03:50, 03:52-03:58, 03:60-03:71, 03:73-03:74, 03:76-03:87, 03:90-03:94, 03:96-03:106, 03:109-03:122, 03:124-03:141, 03:143-03:151, 03:153-03:162N, 34:08, 74:13																																															
*01:20, 01:66																																															
*01:44																																															
*01:69:02				w																																											
*01:83:02, 11:121, 26:07:02, 33:01:02, 33:08-33:09, 74:04				+																																										
*01:104	+																																														
*03:01:03				w																																											
*03:09	+	+																																													
*03:17:01					+					+																																					
*03:23:01				+																																											
*03:44																																															
*03:51																																															
Well No.										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
HLA-A allele[2,3]	1	2	3	4	5	6	7	8	9	01	01	02	03	04	05	06	07	08	09	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

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For *In Vitro* Diagnostic Use.

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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"Instructions for Use" (IFU)

Lot No.: 29S **Lot-specific information**

49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	**Well No.** **HLA-A allele[2,3]**
																												+																							*02:295
				+																																														*02:300
														+																																				*02:301N
		+																																															*02:304
																							+										+																	*02:309
									+																																								*02:310
																																+																	**02:315**
																																																*02:317, 02:347, 02:361
			+																																													*02:319
															+																																		*02:321N
						+																																										*02:322
																																																*02:323
																																																*02:330
											+	+																																			*02:334
												+																																				*02:338
																																																*02:339
																																																*02:344
																																																*02:351
																																																*02:355
																																																*02:356N
																																																*02:366N
																																																*02:369
																																																*02:373N
																																																*02:376
																																																*02:382
																																																*02:387
																																																*02:395N
																																																*02:398
																																																*02:400
						+																	+																								*02:402
																																																*02:403
																																																*01:13, 01:17, 03:01:01:01-03:01:02, 03:01:04-03:07, 03:10-03:11N, 03:13-03:16, 03:17:02-03:22:02, 03:23:02-03:31, 03:33-03:35, 03:37-03:40, 03:42-03:43, 03:45-03:50, 03:52-03:58, 03:60-03:71, 03:73-03:74, 03:76-03:87, 03:90-03:94, 03:96-03:106, 03:109-03:122, 03:124-03:141, 03:143-03:151, 03:153-03:162N, 34:08, 74:13
															+																																			*01:20, 01:66
																																+																	*01:44
																																																*01:69:02
																																																*01:83:02, 11:121, 26:07:02, 33:01:02, 33:08-33:09, 74:04
		+																																													*01:104
																																																*03:01:03
		+																																													*03:09
																																																*03:17:01
																																																*03:23:01
															+																	+																	*03:44
														+																																				*03:51
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	**Well No.** **HLA-A allele[2,3]**

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For *In Vitro* Diagnostic Use.

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 29S **Lot-specific information**

Well No.										1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4
HLA-A allele[2,3]	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8
*03:75																																										+						
*03:89	+	+		+																																+												
*03:95																																										+			+			
*03:108	+	+																																		+												
*03:123																											+															+						
*11:06, 11:18	+											+																								+												
*11:16, 11:35, 11:57, 11:73																											+																					
*11:119																+			+					+													+											
*23:01:01-23:01:11, 23:05-23:07N, 23:09, 23:11N, 23:13, 23:14:02-23:23, 23:25-23:30, 23:32-23:33, 23:35-23:40, 23:42, 23:44, 23:46, 23:48-23:51, 23:53-23:54, 23:56, 24:24					+																	+													+													
*23:02																						+													w													
*23:03:01-23:03:02, 29:07, 31:29																																																
*23:04, 23:43					+																														+													
*23:08N					+																	+									+				+													
*23:10					+																	+													+		w											
*23:12					+						+						+					+													+													
*23:14:01					+																	+													+													
*23:24, 24:13:01					+																	+																										
*23:31, 23:45, 23:55					+											+						+													+													
*23:34, 24:13:02					+																	+																										
*23:41					+																	+													+													
*23:47					+																	+													+													
*23:52					+																	+													+													
*24:02:01:01-24:02:15, 24:02:17-24:02:41, 24:02:43-24:02:64, 24:04-24:05, 24:07-24:09N, 24:11N, 24:17, 24:19-24:20, 24:25-24:27, 24:29, 24:31-24:32, 24:34-24:40N, 24:43-24:45N, 24:47-24:50, 24:52-24:53, 24:57-24:58, 24:60N-24:64, 24:66-24:70, 24:74, 24:76-24:86N, 24:88, 24:90N, 24:95-24:98, 24:100-24:106, 24:108-24:109, 24:111-24:124, 24:126-24:130, 24:132N, 24:134-24:137, 24:139-24:156, 24:159, 24:161-24:166, 24:168-24:176, 24:178-24:187, 24:189, 24:191-24:203, 24:205-24:206, 24:209, 24:212, 24:214-24:217, 24:220-24:226, 24:230, 33:19																			+			+																										
*24:02:16, 24:06, 24:54, 24:87, 24:107, 24:160, 24:213, 24:227																						+																										
Well No.										1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4
HLA-A allele[2,3]	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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"Instructions for Use" (IFU)

Lot No.: 29S **Lot-specific information**

49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	**Well No.** / **HLA-A allele[2,3]**
				+																																													*03:75
		+																																														*03:89
						+																												+														*03:95
		+																																														*03:108
												+																																					*03:123
		+																																															*11:06, 11:18
												+																																					*11:16, 11:35, 11:57, 11:73
+																																																	*11:119
				+																																													*23:01:01-23:01:11, 23:05-23:07N, 23:09, 23:11N, 23:13, 23:14:02-23:23, 23:25-23:30, 23:32-23:33, 23:35-23:40, 23:42, 23:44, 23:46, 23:48-23:51, 23:53-23:54, 23:56, 24:24
																																																	*23:02
				+																																													*23:03:01-23:03:02, 29:07, 31:29
				+																																													*23:04, 23:43
				+																																													*23:08N
w				+																																													*23:10
				+																																													*23:12
																																																	*23:14:01
				+																																													*23:24, 24:13:01
				+																																													*23:31, 23:45, 23:55
																																																	*23:34, 24:13:02
				+											+																																		*23:41
				+																					+																								*23:47
				+																																													*23:52
																																																	*24:02:01:01-24:02:15, 24:02:17-24:02:41, 24:02:43-24:02:64, 24:04-24:05, 24:07-24:09N, 24:11N, 24:17, 24:19-24:20, 24:25-24:27, 24:29, 24:31-24:32, 24:34-24:40N, 24:43-24:45N, 24:47-24:50, 24:52-24:53, 24:57-24:58, 24:60N-24:64, 24:66-24:70, 24:74, 24:76-24:86N, 24:88, 24:90N, 24:95-24:98, 24:100-24:106, 24:108-24:109, 24:111-24:124, 24:126-24:130, 24:132N, 24:134-24:137, 24:139-24:156, 24:159, 24:161-24:166, 24:168-24:176, 24:178-24:187, 24:189, 24:191-24:203, 24:205-24:206, 24:209, 24:212, 24:214-24:217, 24:220-24:226, 24:230, 33:19
																																																	*24:02:16, 24:06, 24:54, 24:87, 24:107, 24:160, 24:213, 24:227
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	**Well No.** / **HLA-A allele[2,3]**

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For *In Vitro* Diagnostic Use.

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 29S **Lot-specific information**

Well No. / HLA-A allele[2,3]	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
*24:03:01-24:03:02, 24:33, 24:75																			+																													
*24:10:01-24:10:02																			+																		+											
*24:14, 24:93																			+			+																							+			
*24:15, 24:41, 24:51, 24:92																+			+			+																										
*24:18					+					+																																						
*24:23																			+			w																										
*24:28, 24:30, 24:42, 24:89											+						+		+			+																										
*24:46																			+			+															w											
*24:55																			+			+			+																							
*24:56, 24:177										+									+			+																										
*24:59, 24:190, 24:229																			+			+		+																								
*24:71																			+			+													+													
*24:72																			+			+																										
*24:73, 24:157																			+			+																										
*24:91																						+															+											
*24:94					+																		+																		+							
*24:99									+										+			+																										
*24:131, 24:218																			+			+					+																					
*24:133																						+																										
*24:138						+																	+				+														+							
*24:188					+																	+	+				+														+							
*24:207					+																																											
*24:210																			+					+													+											
*24:219																			+					+																								
*24:228					+																	+	+																		+							
*25:11, 26:36	+																																			+												
*26:03:01-26:03:02, 26:06, 26:21, 26:30, 26:78	+											+																								+												
*26:10									+	+						+																					+											
*26:22, 66:09																																											+					
*29:15																																																
*29:19, 32:08, 33:24	+										+																									+												
*29:22, 33:22																																								+								
*29:48				+							+																									+												
*30:01:01-30:01:07, 30:08, 30:11:01-30:11:02, 30:14L-30:15, 30:17-30:20, 30:23-30:24, 30:26, 30:30-30:31, 30:35-30:36, 30:38-30:43, 30:48-30:49, 30:53-30:54, 30:56, 30:58-30:60, 30:62-30:63, 30:65, *C*03:82*																																		+														
*30:13, 30:44, 30:46	+																										+									+												
*30:16	+																										+							+		+												
*30:22																																																
*30:37																																		+														
*30:52																																		+														
*30:55																																		+								+						
*30:61					+																																											
*31:48, 33:15																																																
*31:67-31:68, 33:32:01					+																														+													
*32:28					+											+																			+													
*32:46																																																
*32:48N																																																
Well No. / HLA-A allele[2,3]	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

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 29S **Lot-specific information**

4 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 7 7 7 7 7 7 7 7 8 8 8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9	**Well No.**
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	**HLA-A allele[2,3]**
	*24:03:01-24:03:02, 24:33, 24:75
+	*24:10:01-24:10:02
	*24:14, 24:93
+	*24:15, 24:41, 24:51, 24:92
+	*24:18
	*24:23
	*24:28, 24:30, 24:42, 24:89
w	*24:46
	*24:55
	*24:56, 24:177
+	*24:59, 24:190, 24:229
	*24:71
+	*24:72
+	*24:73, 24:157
	*24:91
+	*24:94
	*24:99
	*24:131, 24:218
+	*24:133
	*24:138
+	*24:188
+	*24:207
+	*24:210
	*24:219
+	*24:228
+	*25:11, 26:36
+	*26:03:01-26:03:02, 26:06, 26:21, 26:30, 26:78
+	*26:10
+	*26:22, 66:09
	*29:15
+ +	*29:19, 32:08, 33:24
+	*29:22, 33:22
+ +	*29:48
	*30:01:01-30:01:07, 30:08, 30:11:01-30:11:02, 30:14L-30:15, 30:17-30:20, 30:23-30:24, 30:26, 30:30-30:31, 30:35-30:36, 30:38-30:43, 30:48-30:49, 30:53-30:54, 30:56, 30:58-30:60, 30:62-30:63, 30:65, *C*03:82*
	*30:13, 30:44, 30:46
+	*30:16
+	*30:22
+	*30:37
+	*30:52
	*30:55
	*30:61
+	*31:48, 33:15
	*31:67-31:68, 33:32:01
+	*32:28
+	*32:46
+	*32:48N
4 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 7 7 7 7 7 7 7 7 8 8 8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9	**Well No.**
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	**HLA-A allele[2,3]**

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 29S **Lot-specific information**

Well No.										1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
HLA-A allele[2,3]	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8
*68:01:01:01-68:01:10, 68:01:12-68:01:13, 68:01:15-68:01:18, 68:03:01-68:04, 68:07, 68:10-68:11N, 68:13:01-68:13:02, 68:16-68:17, 68:19, 68:21:01-68:22, 68:24, 68:29, 68:32, 68:35-68:39, 68:41, 68:43, 68:45-68:47, 68:52, 68:55-68:59N, 68:66, 68:68-68:70, 68:72-68:73, 68:75, 68:79, 68:84-68:85, 68:87-68:91, 68:93-68:95, 68:98-68:99						+																				+																				
*68:01:11						+																				+						+														
*68:01:14																										+																				
*68:02:01:01-68:02:05, 68:18N, 68:27-68:28, 68:31, 68:34, 68:40, 68:53, 68:60, 68:62, 68:64, 68:67, 68:74, 68:77-68:78, 68:80, 68:82, 68:86, 68:92, 68:97			+			+										+										+																				
*68:05, 68:20	+					+					+	+														+																				
*68:06						+																				+																				
*68:08:01-68:08:02					+																					+																				
*68:09																			+							+																				
*68:12						+																																								
*68:14						+																				+																				
*68:15	+		+			+						+				+										+																				
*68:23			+			+																				+																				
*68:25						+										+										+																				
*68:26																			+		+					+																				
*68:30				+		+																				+																				
*68:33, 68:96						+																				+																				
*68:42						+				+																+																				
*68:44						+										+										+																				
*68:48			+													+										+																				
*68:49N						+										+																														
*68:50																																														
*68:51			+			+										+										+																				
*68:54			+			+				+						+										+																				
*68:61			+			+				+						+										+																				
*68:63					+					+																+																				
*68:65						+															+					+																				
*68:71						+																				+																				
*68:76						+																				+																				
*68:81			+			+										+										+																				
*68:83						+																				+																				
*69:01			+		+																																								
*74:06	+	+									+																																			
*80:01:01:01	W																																													
*B*15:67, B*35:110*																																													
*B*15:173, B*18:63*																																													
*B*44:59:02*																+																														
*B*44:136*																+																														
*B*51:136*					+					+						+																														
*C*07:204*					+											+								+																					
*C*12:37*										+						+																														
*C*12:94, C*14:48*																																													
Well No.										1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
HLA-A allele[2]	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 29S **Lot-specific information**

4 5 5 5	5 5 5 5	5 5 5 6	6 6 6 6	6 6 6 6	6 7 7 7	7 7 7 7	7 7 7 8	8 8 8 8	8 8 8 8	8 9 9 9	9 9 9 9	Well No.
9 0 1 2	3 4 5 6	7 8 9 0	1 2 3 4	5 6 7 8	9 0 1 2	3 4 5 6	7 8 9 0	1 2 3 4	5 6 7 8	9 0 1 2	3 4 5 6	HLA-A allele[2,3]
			+ +									*68:01:01:01-68:01:10, 68:01:12-68:01:13, 68:01:15-68:01:18, 68:03:01-68:04, 68:07, 68:10-68:11N, 68:13:01-68:13:02, 68:16-68:17, 68:19, 68:21:01-68:22, 68:24, 68:29, 68:32, 68:35-68:39, 68:41, 68:43, 68:45-68:47, 68:52, 68:55-68:59N, 68:66, 68:68-68:70, 68:72-68:73, 68:75, 68:79, 68:84-68:85, 68:87-68:91, 68:93-68:95, 68:98-68:99
			+ +									*68:01:11
			+ +									*68:01:14
			+ +							+		*68:02:01:01-68:02:05, 68:18N, 68:27-68:28, 68:31, 68:34, 68:40, 68:53, 68:60, 68:62, 68:64, 68:67, 68:74, 68:77-68:78, 68:80, 68:82, 68:86, 68:92, 68:97
	+	+	+ +									*68:05, 68:20
			+ +								+	*68:06
			+ +									*68:08:01-68:08:02
			+ +									*68:09
			+									*68:12
			+ +			+						*68:14
		+	+ +							+		*68:15
			+ +									*68:23
			+ +							+		*68:25
			+ +									*68:26
			+ +									*68:30
			+									*68:33, 68:96
			+ +									*68:42
			+							+		*68:44
			+ +							+		*68:48
			+			+				+		*68:49N
			+									*68:50
			+ +							+		*68:51
			+ +							+		*68:54
+			+ +							+		*68:61
			+ +									*68:63
			+ +									*68:65
			+ +									*68:71
			+ +							+		*68:76
			+ +			+				+		*68:81
			+									*68:83
												*69:01
	+	+										*74:06
	W											*80:01:01:01
									+			*B*15:67, B*35:110*
											+	*B*15:173, B*18:63*
						+				+		*B*44:59:02*
										+		*B*44:136*
										+		*B*51:136*
+										+		*C*07:204*
										+		*C*12:37*
									+		+	*C*12:94, C*14:48*
4 5 5 5	5 5 5 5	5 5 5 6	6 6 6 6	6 6 6 6	6 7 7 7	7 7 7 7	7 7 7 8	8 8 8 8	8 8 8 8	8 9 9 9	9 9 9 9	Well No.
9 0 1 2	3 4 5 6	7 8 9 0	1 2 3 4	5 6 7 8	9 0 1 2	3 4 5 6	7 8 9 0	1 2 3 4	5 6 7 8	9 0 1 2	3 4 5 6	HLA-A allele[2]

[1]The 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-A*02 subtyping.
In addition, wells number 6, 10, 13-16, 23, 26, 28, 30, 31, 34, 38, 42-44, 47, 50, 52, 54, 58, 59, 62, 63, 66, 67, 70, 71, 73, 74, 76, 77, 81, 83-91 and 93-95 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.
[2]The sequence of A*020116 has been renamed to A*02:134.
The sequence of A*02:01:20 has been shown to be identical to A*02:01:18
The sequence of A*02:01:82 has been shown to be identical to A*02:01:84.
The sequence of the A*02:23 allele has been shown to be identical to A*02:22:01.
The sequence of the A*02:98 allele has been shown to be identical to A*02:96.
The A*02:100 has never been assigned.
[3]HLA-A*02 alleles in bold lettering are listed as confirmed alleles on the on the IMGT/HLA web page www.ebi.ac.uk/imgt/hla, release 3.11.0, January 2013.
[4]The A*02:97:01-02:97:02 and the 02:305N alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 59.
[5]The A*02:107, the 02:202 and the 02:251 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 65.
[6]The A*02:111 and 02:350N alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 67.
[7]The A*02:119 and 02:263 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 73.
[8]The A*02:120 and 02:223N alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 74.
[9]The A*02:132, the 02:215 and the 02:237 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 83.
[10]The A*02:134 and 02:314N alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 85.
[11]The A*02:138 and 02:284N alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 87.
[12]The A*02:139 and 02:235 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 88.
[13]The A*02:141 and 02:275 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 90.
[14]The A*02:150, the 02:197 and the 02:325 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 94.
[15]The A*02:153 and 02:196 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 96.
[16]The A*02:180 and 02:358 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 29.
[17]The A*02:193 and 02:213 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 78.
[18]The A*02:269 and 02:367 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 70.
[19]Primer mix 8: Specific PCR fragment of 415 bp in the A*02:02, 02:05:01-02:05:06, 02:14, 02:47, 02:63, 02:102, 02:115, 02:154-02:155, 02:172, 02:179, 02:186, 02:209, 02:229, 02:232, 02:271, 02:286, 02:320, 02:324, 02:337, 02:344, 02:359, 02:373N and 02:376 alleles. Specific PCR fragment of 505 bp in the A*02:32N allele.
Primer mix 11: Specific PCR fragment of 225 bp in the A*02:89 allele. Specific PCR fragment of 350 bp in the A*02:04, 02:17:01-02:17:02, 02:57, 02:65, 02:108, 02:110, 02:152, 02:268, 02:300, 02:303 and 02:334 and the A*23:12, 24:28, 24:30, 24:42, 24:89, 29:19, 29:48, 32:08, 33:24, 68:05, 68:20 and 74:06 alleles.
Primer mix 12: Specific PCR fragment of 195 bp in A*02:85 allele. Specific PCR fragment of 235 bp in the A*02:05:01-02:06:13, 02:08, 02:10, 02:14, 02:21, 02:28, 02:41, 02:44, 02:51, 02:54,

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02:57, 02:61, 02:72, 02:79:01-02:79:02, 02:84, 02:91, 02:99, 02:106, 02:108, 02:122, 02:126-02:127, 02:137, 02:142-02:144, 02:154, 02:169-02:170, 02:172, 02:178-02:180, 02:229, 02:232, 02:244, 02:248, 02:259, 02:271, 02:278, 02:286, 02:290, 02:295, 02:300, 02:310, 02:324, 02:328, 02:330, 02:333, 02:337, 02:344, 02:355, 02:358-02:359, 02:373N, 02:376, 02:382, 02:387 and 02:398 and the A*11:06, 11:18, 26:03:01-26:03:02, 26:06, 26:21, 26:30, 26:78, 68:05, 68:15 and 68:20 alleles.

Primer mix 14: Specific PCR fragment of 95 bp in A*02:91 and 02:322 alleles. Specific PCR fragment of 170 bp in the A*02:07:01-02:07:02, 02:15N, 02:18, 02:103, 02:112, 02:130, 02:191, 02:219, 02:255, 02:261, 02:265, 02:282, 02:319, 02:335, 02:369 and 02:403 alleles.

Primer mix 15: Specific PCR fragment of 125 bp in the A*02:21 and 02:186 alleles. Specific PCR fragment of 265 bp in the A*02:87, 02:112, 02:129 and 02:136 alleles. Specific PCR fragment of 305 bp in the A*02:96 allele.

Primer mix 16: Specific PCR fragment of 110 bp in the A*02:50, 02:73, 02:93, 02:122, 02:156, 02:172 and 02:279 and the A*11:119, 23:31, 23:45, 23:55, 24:15, 24:41, 24:51, 24:92, 26:10, 32:28, 68:02:01:01-68:02:05, 68:15, 68:18N, 68:25, 68:27-68:28, 68:31, 68:34, 68:40, 68:44, 68:48-68:49N, 68:51, 68:53-68:54, 68:60-68:62, 68:64, 68:67, 68:74, 68:77-68:78, 68:80-68:82, 68:86, 68:92 and 68:97 and in the B*44:59:02, 44:136, B*51:136, C*07:204 and C*12:37 alleles. Specific PCR fragment of 155 bp in the A*02:09 and 02:49 alleles.

Primer mix 17: Specific PCR fragment of 205 bp in the A*02:83N allele. Specific PCR fragment of 360 bp in the A*02:10, 02:17:01-02:17:02, 02:39, 02:108, 02:110, 02:148, 02:242, 02:244, 02:268, 02:300, 02:303 and 02:398 and the A*23:12, 24:28, 24:30, 24:42 and 24:89 alleles.

Primer mix 19: Specific PCR fragment of 125 bp in the A*02:12-02:13, 02:19, 02:27, 02:37-02:38, 02:44, 02:54, 02:142, 02:271, 02:280, 11:119, 24:02:01:01-24:02:15, 24:02:17-24:02:41, 24:02:43-24:05, 24:07-24:11N, 24:14-24:15, 24:17, 24:19-24:20, 24:23, 24:25-24:53, 24:55-24:64, 24:66-24:86N, 24:88-24:90N, 24:92-24:93, 24:95-24:106, 24:108-24:109, 24:111-24:124, 24:126-24:132N, 24:134-24:137, 24:139-24:157, 24:159, 24:161-24:166, 24:168-24:187, 24:189-24:203, 24:205-24:206, 24:209-24:210, 24:212, 24:214-24:226, 24:229-24:230, 33:19, 68:09 and 68:26 alleles. Specific PCR fragment of 165 bp in the A*02:283 allele.

Primer mix 20: Specific PCR fragment of 135 bp in the A*02:200 allele. Specific PCR fragment of 295 bp in the A*02:49 allele.

Primer mix 21: Specific PCR fragment of 220 bp in the A*02:15N and 02:356N alleles. Specific PCR fragment of 255 bp in the A*02:291 allele.

Primer mix 23: Specific PCR fragment of 135 bp in the A*02:31, 02:161 and 02:387 alleles. Specific PCR fragment of 180 bp in the A*02:17:01-02:17:02, 02:108, 02:110, 02:268, 02:300 and 02:303 and the A* 24:94, 24:138, 24:188 and 24:228 alleles.

Primer mix 24: Specific PCR fragment of 75 bp in the A*02:230 allele. Specific PCR fragment of 115 bp in the A*02:27 and the A*11:119, 24:59, 24:190, 24:210, 24:229 and in the C*07:204 alleles. Specific PCR fragment of 160bp in the A*02:233 and the A*24:219 alleles.

Primer mix 25: Specific PCR fragment of 125 bp in the A*02:226N allele. Specific PCR fragment of 145 bp in the A*02:16 and 02:131 and the A*24:55 alleles. Specific PCR fragment of 165 bp in the A*02:283 allele.

Primer mix 26: Specific PCR fragment of 125 bp in the A*02:33 allele. Specific PCR fragment of 165 bp in the A*02:52 allele. Specific PCR fragment of 260 bp in the A*02:198 allele.

Primer mix 27: Specific PCR fragment of 95 bp in the A*02:28, 02:155 and 02:185 and the A*30:13, 30:16, 30:44 and 30:46 alleles. Specific PCR fragments of 145 bp in A*02:10, 02:50, 02:52, 02:73, 02:93, 02:95, 02:110, 02:114, 02:117, 02:122, 02:156, 02:242, 02:244, 02:279, 02:282, 02:300, 02:304 and 02:339 and the A*03:123, 11:16, 11:35, 11:57, 11:73, 24:131, 24:138, 24:188, 24:218 68:01:01:01-68:11N, 68:13-68:48 and 68:51-68:99 alleles.

Primer mix 29: Specific PCR fragment of 220 bp in the A*02:45-02:46, 02:48, 02:56:01^{w}-02:56:02^{w}, 02:78^{w}, 02:92, 02:103^{w}, 02:129, 02:169^{w}, 02:195^{w}, 02:358 and 02:369 alleles. Specific PCR fragment of 300 bp in A*02:180 allele.

Primer mix 30: Specific PCR fragment of 130 bp in the A*02:163 allele. Specific PCR fragment of 160 bp in A*02:43N and 02:104 alleles.

Primer mix 31: Specific PCR fragment of 95 bp in A*02:82N and in the A*23:08N alleles. Specific PCR fragments of 220 bp in A*02:45, 02:56:01-02:56:02, 02:78, 02:103, 02:169 and 02:195 alleles.

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Primer mix 32: Specific PCR fragment of 205 bp in the A*02:176 allele. Specific PCR fragment of 230 bp in the A*02:46, 02:48, 02:70 and 02:129 alleles. Specific PCR fragment of 255 bp in the A*02:47 allele.
Primer mix 33: Specific PCR fragment of 230 bp in A*02:165, 02:168 and 02:400 alleles. Specific PCR fragments of 325 bp in A*02:19, 02:36-02:37, 02:54 and 02:255 alleles.
Primer mix 34: Specific PCR fragment of 120 bp in the A*02:88N allele. Specific PCR fragment of 165 bp in the A*02:395N allele. Specific PCR fragment of 180 bp in the A*02:34-02:35:02, 02:56:01-02:56:02, 02:62, 02:78 and 02:103 and the A*30:01:01-30:01:07, 30:08, 30:11:01-30:11:02, 30:14L-30:20, 30:23-30:24, 30:26, 30:30-30:31, 30:35-30:43, 30:48-30:49, 30:52-30:56, 30:58-30:60, 30:62-30:63, 30:65 and 68:01:11 and in the C*03:82 alleles.
Primer mix 35: Specific PCR fragment of 110 bp in A*02:40:01-02:40:02, 02:51 and 02:130 and the A*23:01:01-23:01:11, 23:02^{W}, 23:04-23:23, 23:25-23:33, 23:35-23:56, 24:24, 24:71, 31:67-31:68, 32:28, 33:32:01 and 68:51^{W} alleles. Specific PCR fragment of 155 bp in A*02:77 allele.
Primer mix 36: Specific PCR fragment of 85 bp in A*02:94N allele. Specific PCR fragments of 445 bp in the A*02:24:01-02:24:02, 02:65, 02:135, 02:137, 02:152 and 02:309 and the A*01:104, 03:09, 03:89, 03:108, 11:06, 11:18, 25:11, 26:03:01-26:03:02, 26:06, 26:21, 26:30, 26:36, 26:78, 29:19, 29:48, 30:13, 30:16, 30:44, 30:46, 32:08, 33:24, 74:06 and 80:01:01:01^{W} alleles.
Primer mix 38: Specific PCR fragment of 125 bp in A*02:41, 02:80, 02:117, 02:289 and 02:304 alleles. Specific PCR fragments of 225 bp in the A*02:351 allele.
Primer mix 39: Specific PCR fragment of 170 bp in the A*02:18 allele. Specific PCR fragment of 260 bp in the A*02:159 and 02:293Q alleles. Specific PCR fragment of 300 bp in the A*02:170 and 02:364 alleles.
Primer mix 40: Specific PCR fragment of 90 bp in the A*02:67 allele. Specific PCR fragment of 210 bp in the A*02:40:01-02:40:02, 02:51 and 02:130 and the A*29:22 and 33:22 alleles.
Primer mix 43: Specific PCR fragment of 180 bp in the A*02:71 allele. Specific PCR fragment of 225 bp in the A*02:03:01-02:03:04, 02:22:01-02:22:02, 02:49, 02:104, 02:117, 02:136, 02:148, 02:191, 02:230, 02:253, 02:258, 02:264, 02:267, 02:281, 02:315, 02:323, 02:345, 02:355, 02:370 02:382 and 02:402 and the A*26:22, 66:09 and 68:83 alleles.
Primer mix 44: Specific PCR fragment of 125 bp in the A*02:203 allele. Specific PCR fragment of 155 bp in the A*02:59 allele. Specific PCR fragment of 205 bp in the A*02:222N allele.
Primer mix 45: Specific PCR fragment of 105 bp in the A*02:60:01-02:60:02 and 02:254 alleles. Specific PCR fragment of 185 bp in the A*02:19, 02:39, 02:44, 02:79:01-02:79:02, 02:86 and 02:400 and the A*01:20, 01:66, 03:95, 24:14 and 24:93 alleles.
Primer mix 46: Specific PCR fragment of 70 bp in the A*02:66 allele. Specific PCR fragment of 205 bp in the A*02:61 allele.
Primer mix 47: Specific PCR fragment of 165 bp in the A*02:63 allele. Specific PCR fragment of 205 bp in the A*02:144 and 02:205 alleles. Specific PCR fragment of 255 bp in the A*02:35:01-02:35:03, 02:48, 02:78, 02:90 and 02:331 alleles. Specific PCR fragment of 305 bp in the A*02:207 allele.
Primer mix 49: Specific PCR fragment of 115 bp in the A*02:27 and 02:267 and the A*11:119, 24:59, 24:190, 24:210, 24:229 and in the C*07:204 allele. Specific PCR fragment of 145 bp in the A*02:38, 02:101:01-02:101:02 and 02:154 and the A*11:119, 23:10^{W}, 24:10:01-24:10:02, 24:46^{W}, 24:210, 26:10 and 68:61 alleles.
Primer mix 54: Specific PCR fragment of 240 bp in the A*02:189 and 02:190 alleles. Specific PCR fragment of 350 bp in A*02:74:01-02:74:02 alleles.
Primer mix 56: Specific PCR fragment of 150 bp in the A*02:175 and 02:181 alleles. Specific PCR fragment of 275 bp in A*02:53N, 02:81 and 02:124 alleles.
Primer mix 57: Specific PCR fragment of 105 bp in the A*02:42 and 02:310 alleles. Specific PCR fragment of 145 bp in A*02:160 and 02:175 alleles.
Primer mix 59: Specific PCR fragment of 145 bp in the A*02:97:01-02:97:02 alleles. Specific PCR fragment of 190 bp in A*02:305N allele.
Primer mix 63: Specific PCR fragment of 95 bp in the A*02:259 and the A*03:51, 30:37 and 32:46 alleles. Specific PCR fragment of 160 bp in A*02:105 and 02:301N alleles.
Primer mix 64: Specific PCR fragment of 125 bp in the A*02:106 and 02:145 and the A*24:72 alleles. Specific PCR fragment of 175 bp in A*02:164 and 02:221 and the A*01:44, 03:44 23:41 and 29:15 alleles. Specific PCR fragment of 260 bp in A*02:187 allele.

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Primer mix 65: Specific PCR fragment of 145 bp in the A*02:160 and 02:251 alleles. Specific PCR fragment of 185 bp in A*02:107 allele. Specific PCR fragment of 250 bp in A*02:202 allele.
Primer mix 67: Specific PCR fragment of 105 bp in the A*02:177 allele. Specific PCR fragment of 130 bp in A*02:111 allele. Specific PCR fragment of 180 bp in A*02:330 allele. Specific PCR fragment of 300 bp in A*02:350N allele.
Primer mix 68: Specific PCR fragment of 210 bp in the A*02:113N and 02:321N alleles. Specific PCR fragment of 260 bp in A*02:184 allele.
Primer mix 69: Specific PCR fragment of 170 bp in the A*02:114, 02:246 and 02:279 alleles. Specific PCR fragment of 225 bp in A*02:260 allele. Specific PCR fragment of 335 bp in A*02:166 allele.
Primer mix 70: Specific PCR fragment of 125 bp in the A*02:115 allele. Specific PCR fragment of 180 bp in A*02:367 allele. Specific PCR fragment of 285 bp in A*02:53N, 02:192 and 02:269 alleles.
Primer mix 72: Specific PCR fragment of 110 bp in the A*02:183 allele. Specific PCR fragment of 230 bp in the A*02:189 allele. Specific PCR fragment of 260 bp in the A*02:19, 02:44, 02:118, 02:135, 02:149, 02:152, 02:190, 02:309 and 02:402 alleles.
Primer mix 73: Specific PCR fragment of 80 bp in the A*02:263 allele. Specific PCR fragment of 200 bp in the A*02:119 allele. Specific PCR fragment of 250 bp in A*02:158 allele.
Primer mix 74: Specific PCR fragment of 175 bp in the A*02:120 allele. Specific PCR fragment of 250 bp in A*02:187 and 02:223N alleles.
Primer mix 75: Specific PCR fragment of 100 bp in the A*02:373N and the A*68:49N alleles. Specific PCR fragment of 165 bp in the A*02:166 allele. Specific PCR fragment of 205 bp in the A*02:121 and the A*23:47, 68:14 and 68:81 and in the B*44:59:02 alleles.
Primer mix 77: Specific PCR fragment of 85 bp in the A*02:123, 02:295 and 02:344 alleles. Specific PCR fragment of 110 bp in the A*02:162 allele.
Primer mix 78: Specific PCR fragment of 75 bp in the A*02:193 allele. Specific PCR fragment of 130 bp in the A*02:213 allele. Specific PCR fragment of 240 bp in the A*02:124 allele.
Primer mix 79: Specific PCR fragment of 215 bp in the A*02:125N and 02:227N alleles. Specific PCR fragment of 270 bp in A*02:53N, 02:184 and 02:192 alleles.
Primer mix 80: Specific PCR fragment of 90 bp in the A*02:214 allele. Specific PCR fragment of 135 bp in the A*02:194 allele. Specific PCR fragment of 230 bp in A*02:126 allele.
Primer mix 81: Specific PCR fragment of 110 bp in the A*02:183 allele. Specific PCR fragment of 235 bp in A*02:165 and 02:400 alleles. Specific PCR fragment of 315 bp in A*02:127, 02:167 and 02:299 alleles.
Primer mix 82: Specific PCR fragment of 130 bp in the A*02:131 allele. Specific PCR fragment of 255 bp in the A*02:291 allele. Specific PCR fragment of 295 bp in the A*02:199 allele.
Primer mix 83: Specific PCR fragment of 120 bp in the A*02:132 and 02:215 allele. Specific PCR fragment of 240 bp in the A*02:237 and the A*03:95 alleles.
Primer mix 84: Specific PCR fragment of 180 bp in the A*02:133 and 02:164 and the A*01:44 and 03:44 alleles. Specific PCR fragment of 205 bp in the A*02:315 allele. Specific PCR fragment of 245 bp in the A*02:250N allele.
Primer mix 85: Specific PCR fragment of 170 bp in the A*02:314N and 02:376 and the A*32:48N allele. Specific PCR fragment of 260 bp in the A*02:134 allele.
Primer mix 86: Specific PCR fragment of 180 bp in the A*02:135 and 02:309 alleles. Specific PCR fragment of 255 bp in the A*02:174 allele. Specific PCR fragment of 310 bp in the A*02:228 allele.
Primer mix 87: Specific PCR fragment of 155 bp in the A*02:138 and 02:181 alleles. Specific PCR fragment of 210 bp in the A*02:284N allele.
Primer mix 88: Specific PCR fragment of 135 bp in the A*02:188 and 02:235 and in the B*15:67, B*35:110, C*12:94 and C*14:48 alleles. Specific PCR fragment of 240 bp in the A*02:139 allele.
Primer mix 89: Specific PCR fragment of 120 bp in the A*02:140 and 02:182 and the A*24:133, 31:48 and 33:15 alleles. Specific PCR fragment of 200 bp in the A*02:227N allele.
Primer mix 90: Specific PCR fragment of 100 bp in the A*02:72, 02:206 and 02:275 alleles. Specific PCR fragment of 130 bp in the A*02:161 allele. Specific PCR fragment of 190 bp in the A*02:141 allele.
Primer mix 92: Specific PCR fragment of 180 bp in the A*02:173 allele. Specific PCR fragment of 260 bp in the A*02:146 allele.

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 29S **Lot-specific information**

Primer mix 93: Specific PCR fragment of 130 bp in the A*02:163 allele. Specific PCR fragment of 250 bp in the A*02:147 and 02:339 and the A*23:52, 24:73 and 24:157 and in the B*15:173 and B*18:63 alleles. Specific PCR fragment of 295 bp in the A*02:157 allele.
Primer mix 94: Specific PCR fragment of 110 bp in the A*02:325 allele. Specific PCR fragment of 210 bp in the A*02:150 allele. Specific PCR fragment of 360 bp in A*02:197 allele.
Primer mix 96: Specific PCR fragment of 135 bp in the A*02:196 allele. Specific PCR fragment of 255 bp in A*02:153 and 02:366N alleles.
'w', might be weakly amplified.

Primers

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec. PCR product	360	240	175	80	125	75	175	415 505	105	115	225 350	195 235
Length of int. pos. control[1]	800	1070	1070	1070	1070	800	1070	1070	1070	800	1070	1070
5'-primer(s)[2]	292 5' -CTC 3'	81 5' -CAg 3'	362 5' -gAg 3'	200 5' -CCA 3'	453 5' -AAA 3'	506 5' -gCA 3'	402 5' -CTg 3'	270 5' -AAA 3'	453 5' -AAA 3'	453 5' -AAA 3'	292 5' -CTC 3'	98 5' -CTA 3'
	292 5' -CCC 3'	102 5' -ACA 3'	362 5' -gAg 3'								648 5' -CAA 3'	362 5' -gAg 3'
3'-primer(s)[3]	368 5' -CAT 3'	292 5' -gTg 3'	497 5' -Tgg 3'	240 5' -ggA 3'	539 5' -TCA 3'	539 5' -TCC 3'	538 5' -CCA 3'	402 5' -CgC 3'	517 5' -CgT 3'	527 5' -CCT 3'	362 5' -TCA 3'	292 5' -gTg 3'
	368 5' -CAT 3'		497 5' -Tgg 3'	241 5' -CgC 3'			538 5' -CAA 3'	493 5' -CTA 3'			362 5' -TCA 3'	518 5' -CCA 3'
			497 5' -Tgg 3'								831 5' -TCC 3'	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

Well No.	13	14	15	16	17	18	19	20	21	22	23	24
Length of spec. PCR product	145	95 170	125 265 305	110 155	205 360	175	125 165	135 295	220 255	160	135 180	75 115 160
Length of int. pos. control[1]	800	800	800	800	1070	1070	1070	1070	1070	1070	800	1070
5'-primer(s)[2]	98 5' -CTA 3'	368 5' -gTg 3'	78 5' -TCT 3'	385 5' -ggC 3'	292 5' -CTC 3'	144 5' -gCA 3'	453 5' -AAA 3'	78 5' -TCT 3'	666 5' -gAA 3'	453 5' -AAA 3'	194 5' -Cgg 3'	453 5' -AAA 3'
	355 5' -CCT 3'	445 5' -TCT 3'		666 5' -gAA 3'	666 5' -gAA 3'			2nd I 5' -CCA 3'			205 5' -ggg 3'	
											368 5' -gTT 3'	
3'-primer(s)[3]	200 5' -TCC 3'	497 5' -Tgg 3'	160 5' -gTT 3'	453 5' -TCT 3'	368 5' -CAA 3'	268 5' -TTg 3'	538 5' -CTg 3'	170 5' -Cgg 3'	843 5' -gTT 3'	570 5' -CCg 3'	292 5' -gTg 3'	487 5' -TgT 3'
	453 5' -TCT 3'		160 5' -gTg 3'	779 5' -CTT 3'	829 5' -CTA 3'	268 5' -TTA 3'	575 5' -ggT 3'	538 5' -CCg 3'	880 5' -gAA 3'		506 5' -TgT 3'	527 5' -CCg 3'
			302 5' -ggT 3'			290 5' -CAA 3'						571 5' -CCg 3'
			343 5' -A 3'									
Well No.	13	14	15	16	17	18	19	20	21	22	23	24

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 29S **Lot-specific information**

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
Length of spec.	125	125	95	235	220	130	95	205	230	120	110	85
PCR product	145	165	145		300	160	220	230	325	165	155	445
	165	260						255		180		
Length of int.	1070	800	1070	800	1070	800	800	1070	1070	800	1070	1070
pos. control[1]												
5'-primer(s)[2]	453	2nd I	238	78	78	529	78	78	2nd I	144	453	292
	5' -AAA 3'	5' -CCA 3'	5' -AgA 3'	5' -TCT 3'	5' -TCT 3'	5' -TgA 3'	5' -TCT 3'	5' -TCT 3'	5' -CCA 3'	5' -gCA 3'	5' -AAA 3'	5' -CTC 3'
			391			666	564			420		
			5' -ACg 3'			5' -gAA 3'	5' -TgA 3'			5' -TAg 3'		
			391									
			5' -ACg 3'									
3'-primer(s)[3]	538	368	292	270	257	616	256	241	473	268	524	335
	5' -CTA 3'	5' -CAg 3'	5' -gTg 3'	5' -ACg 3'	5' -CCT 3'	5' -CgT 3'	5' -CTg 3'	5' -CgT 3'	5' -CgA 3'	5' -TTA 3'	5' -CAC 3'	5' -.gC 3'
	559	411	497	270	337	781	616	265	482	282	524	453
	5' -CTC 3'	5' -TCA 3'	5' -Tgg 3'	5' -ACA 3'	5' -CTg 3'	5' -CCC 3'	5' -CgT 3'	5' -CCC 3'	5' -Tgg 3'	5' -gAC 3'	5' -CAC 3'	5' -TCg 3'
	575	505				791		290	570	282	569	
	5' -ggT 3'	5' -gTA 3'				5' -AgT 3'		5' -gAC 3'	5' -CCg 3'	5' -gAC 3'	5' -ACA 3'	
										497		
										5' -Tgg 3'		
Well No.	25	26	27	28	29	30	31	32	33	34	35	36

Well No.	37	38	39	40	41	42	43	44	45	46	47	48
Length of spec.	140	125	170	90	185	225	180	125	105	70	165	115
PCR product		225	260	210			225	155	185	205	205	
			300					205			255	
											305	
Length of int.	1070	800	1070	1070	1070	800	800	800	1070	1070	800	1070
pos. control[1]												
5'-primer(s)[2]	453	98	355	355	355	98	355	125	355	78	78	419
	5' -AAA 3'	5' -CTT 3'	5' -CCg 3'	5' -CCg 3'	5' -CCC 3'	5' -CTT 3'	5' -CCg 3'	5' -CgA 3'	5' -CCg 3'	5' -TCT 3'	5' -TCT 3'	5' -gTC 3'
		414			692			157		746		431
		5' -CAg 3'			5' -gAA 3'			5' -TgA 3'		5' -gAT 3'		5' -CgC 3'
								451				
								5' -TgT 3'				
3'-primer(s)[3]	542	281	485	403	506	282	494	240	419	241	203	497
	5' -CTT 3'	5' -AgC 3'	5' -CCT 3'	5' -gCA 3'	5' -TgT 3'	5' -gAC 3'	5' -TCC 3'	5' -ggA 3'	5' -CgA 3'	5' -CgC 3'	5' -TCA 3'	5' -Tgg 3'
	559	497	564	524	831	282	539	616	497	777	242	
	5' -CCg 3'	5' -Tgg 3'	5' -ACC 3'	5' -CAC 3'	5' -TCC 3'	5' -gAC 3'	5' -TCC 3'	5' -CgT 3'	5' -TgA 3'	5' -gCA 3'	5' -CCA 3'	
	559		578	524							290	
	5' -CCT 3'		5' -Tgg 3'	5' -CAC 3'							5' -CAg 3'	
			613								340	
			5' -gCA 3'								5' -ggT 3'	
Well No.	37	38	39	40	41	42	43	44	45	46	47	48

CE 0088

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 29S **Lot-specific information**

Well No.	49	50	51	52	53	54	55	56	57	58	59	60
Length of spec.	115	145	410	185	225	240	200	150	105	255	145	345
PCR product	145					350		275	145		190	
Length of int. pos. control[1]	1070	800	1070	800	1070	800	1070	1070	1070	800	800	1070
5'-primer(s)[2]	453	-111	292	98	355	2nd I	81	78	78	78	666	292
	5' -AAA 3'	5' -ATC 3'	5' -CTC 3'	5' -CTC 3'	5' -CCC 3'	5' -CCA 3'	5' -CAg 3'	5' -TCT 3'	5' -TCT 3'	5' -TCT 3'	5' -gAA 3'	5' -CTC 3'
							355					
							5' -CCg 3'					
3'-primer(s)[3]	527	4	418	240	538	475	240	187	142	292	768	355
	5' -CCg 3'	5' -ggC 3'	5' -gTC 3'	5' -ggA 3'	5' -CAA 3'	5' -CgA 3'	5' -ggA 3'	5' -gTg 3'	5' -TgA 3'	5' -gTC 3'	5' -gTg 3'	5' -gAT 3'
	559					497	517	187	184		768	
	5' -CCg 3'					5' -Tgg 3'	5' -CgC 3'	5' -gTA 3'	5' -gCC 3'		5' -gTA 3'	
	559					595		302	187		814	
	5' -CCT 3'					5' -CCg 3'		5' -ggC 3'	5' -gTA 3'		5' -CA. 3'	
						595		324				
						5' -CCT 3'		5' -TAC 3'				
Well No.	49	50	51	52	53	54	55	56	57	58	59	60

Well No.	61	62	63	64	65	66	67	68	69	70	71	72
Length of spec.	185	180	95	125	145	170	105	210	170	125	260	110
PCR product			160	175	185		130	260	225	180		230
				260	250		180		335	285		260
							300					
Length of int. pos. control[1]	1070	800	800	1070	1070	800	800	1070	1070	800	800	1070
5'-primer(s)[2]	355	666	420	395	78	112	78	78	78	78	78	2nd I
	5' -CCA 3'	5' -gAA 3'	5' -TAT 3'	5' -gCA 3'	5' -TCT 3'	5' -CCT 3'	5' -TCT 3'	5' -TCT 3'	5' -TCT 3'	5' -TCT 3'	5' -TCT 3'	5' -CCA 3'
			427	484	355		406		2nd I			
			5' -A.g 3'	5' -ACT 3'	5' -CCg 3'		5' -gCA 3'		5' -CCA 3'			
			485	484			431					
			5' -CAC 3'	5' -ACg 3'			5' -CgC 3'					
				530								
				5' -ggT 3'								
3'-primer(s)[3]	497	806	538	616	184	240	218	244	263	164	298	353
	5' -Tgg 3'	5' -CCA 3'	5' -CAA 3'	5' -CgT 3'	5' -gCC 3'	5' -ggA 3'	5' -gCT 3'	5' -CTA 3'	5' -gTA 3'	5' -gCT 3'	5' -CAg 3'	5' -CgA 3'
					221		337	251	413	218		475
					5' -ACA 3'		5' -CTA 3'	5' -CCT 3'	5' -gCC 3'	5' -gCC 3'		5' -CgA 3'
					456		497	299	578	319		506
					5' -TCg 3'		5' -Tgg 3'	5' -CCT 3'	5' -TgT 3'	5' -gCT 3'		5' -TgC 3'
					565					326		
					5' -CAg 3'					5' -TgC 3'		
Well No.	61	62	63	64	65	66	67	68	69	70	71	72

[1]The 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-A*02 subtyping.
In addition, wells number 6, 10, 13-16, 23, 26, 28, 30, 31, 34, 38, 42-44, 47, 50, 52, 54, 58, 59, 62, 63, 66, 67, 70, 71, 73, 74, 76, 77, 81, 83-91 and 93-95 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 29S **Lot-specific information**

Well No.	73	74	75	76	77	78	79	80	81	82	83	84
Length of spec.	80	175	100	220	85	75	215	90	110	130	120	180
PCR product	200	250	165		110	130	270	135	235	255	240	205
	250		205			240		230	315	295		245
Length of int.	800	800	1070	800	800	1070	1070	1070	800	1070	800	800
pos. control[1]												
5'-primer(s)[2]	78	104	453	48	78	364	78	359	2nd I	341	355	78
	5'-TCT 3'	5'-ATA 3'	5'-AAA 3'	5'-gCT 3'	5'-TCT 3'	5'-ggg 3'	5'-TCT 3'	5'-CCg 3'	5'-CCA 3'	5'-ggg 3'	5'-CCg 3'	5'-TCT 3'
	520	395		441	385	417	453	404		666	808	484
	5'-CgT 3'	5'-gCA 3'		5'-TAA 3'	5'-ggA 3'	5'-CAC 3'	5'-AAA 3'	5'-CCC 3'		5'-gAA 3'	5'-CgA 3'	5'-ACT 3'
		415				666		666				
		5'-ACT 3'				5'-gAA 3'		5'-gAA 3'				
3'-primer(s)[3]	239	240	514	106	119	453	260	453	353	355	442	221
	5'-gAT 3'	5'-ggA 3'	5'-CTA 3'	5'-CAT 3'	5'-ggT 3'	5'-TCT 3'	5'-T.T 3'	5'-TCT 3'	5'-CgA 3'	5'-gAC 3'	5'-gAC 3'	5'-ACC 3'
	289	616	578	616	121	866	299	853	482	755	555	241
	5'-AgC 3'	5'-CgT 3'	5'-TgT 3'	5'-CgT 3'	5'-gCA 3'	5'-AAA 3'	5'-CCT 3'	5'-CAT 3'	5'-Tgg 3'	5'-CCA 3'	5'-CCA 3'	5'-CgA 3'
	559		616		453		319		553	880	868	284
	5'-CgT 3'		5'-CgC 3'		5'-TCT 3'		5'-gCT 3'		5'-CTT 3'	5'-gAA 3'	5'-CAA 3'	5'-..g 3'
							610		559			616
							5'-CTA 3'		5'-CTT 3'			5'-CgT 3'
Well No.	73	74	75	76	77	78	79	80	81	82	83	84

Well No.	85	86	87	88	89	90	91	92	93	94	95	96
Length of spec.	170	180	155	135	120	100	110	180	130	110	135	135
PCR product	260	255	210	240	200	130		260	250	210		255
		310				190			295	360		
Length of int.	800	800	800	800	800	800	800	1070	800	800	800	1070
pos. control[1]												
5'-primer(s)[2]	411	2nd I	78	78	453	143	379	78	364	124	412	78
	5'-TAg 3'	5'-CCA 3'	5'-TCT 3'	5'-TCT 3'	5'-AAA 3'	5'-CgT 3'	5'-ACC 3'	5'-TCT 3'	5'-ggT 3'	5'-gCA 3'	5'-ATg 3'	5'-TCT 3'
	666		392	419	652	205	379		409	223		355
	5'-gAA 3'		5'-CTA 3'	5'-gTC 3'	5'-CTg 3'	5'-ggg 3'	5'-ACT 3'		5'-ggC 3'	5'-Cgg 3'		5'-CCg 3'
						235	385		529	2nd I		
						5'-AgA 3'	5'-ggC 3'		5'-TgA 3'	5'-CCA 3'		
						244	385					
						5'-CgC 3'	5'-ggA 3'					
3'-primer(s)[3]	538	423	187	175	542	292	453	218	616	292	506	172
	5'-CAA 3'	5'-TAA 3'	5'-gTg 3'	5'-CCA 3'	5'-CTg 3'	5'-gTg 3'	5'-TCT 3'	5'-gCA 3'	5'-CgT 3'	5'-gTg 3'	5'-TgT 3'	5'-CAT 3'
	801	502	193	277	610			299		605		295
	5'-CAC 3'	5'-CTg 3'	5'-Cgg 3'	5'-ggT 3'	5'-CTA 3'			5'-TCg 3'		5'-gCA 3'		5'-TCA 3'
	884	557	559	506	727							565
	5'-ggA 3'	5'-TgT 3'	5'-CgT 3'	5'-TgT 3'	5'-CCA 3'							5'-CAT 3'
Well No.	85	86	87	88	89	90	91	92	93	94	95	96

[2]The nucleotide position, in the 5' untranslated region, 1st, 2nd, 3rd or 4th exons or the 2nd 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.
[3]The nucleotide position, in the 2nd, 3rd or 4th exons, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Nucleotide numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 29S **Lot-specific information**

CELL LINE VALIDATION SHEET

HLA-A*02 SSP subtyping kit

					Well															
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				Lot No.:	201206601	201203302	201206603	201190204	201190205	201190206	201190207	201190208	201190209	201190210	201190211	201190212	201318013	201190214	201190215	201203316
	IHWC cell line		A*	A*																
1	9001	SA	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*02:01		+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-
3	9011	E4181324	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*30:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*02:01	*26:03	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-
7	9020	QBL	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*02:01		+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*02:01		+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*03:01	*80:01	w	-	-	-	-	-	-	-	-	-	w	-	-	-	-	-
18	9257	32367	*33:03	*74:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*02:01		+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*02:01		+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*02:17		-	+	-	+	+	-	-	-	-	-	+	-	-	-	-	-
22	9056	KOSE	*02:01		+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*02:01	*34:01	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-
24	9035	JBUSH	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*33:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*02:05		+	-	+	-	-	+	+	+	-	-	-	+	+	-	-	-
27	9191	CH1007	*24:10	*29:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*02:01	*29:02	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*30:01	*68:02	-	-	+	-	-	+	-	-	-	-	-	-	-	-	-	+
31	9019	DUCAF	*30:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*02:01		+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*02:06	*11:01	+	-	+	+	+	-	-	-	-	-	-	+	-	-	-	-
37	9065	HHKB	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*02:17		-	+	-	+	+	-	-	-	-	-	+	-	-	-	-	-
39	9315	CML	*01:01	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*02:07	*30:01	-	+	+	+	+	-	-	-	-	-	-	-	-	+	-	-
41	9055	H0301	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*02:07		+	+	+	+	+	-	-	-	-	-	-	-	-	+	-	-
43	9076	T7526	*02:06	*02:07	+	+	+	+	+	-	-	-	-	-	-	+	-	+	-	-
44	9057	TEM	*66:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*23:01	*24:02	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+	-
46	9013	SCHU	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*02:16	*03:01	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*02:01	*11:01	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: 29S **Lot-specific information**

CELL LINE VALIDATION SHEET

HLA-A*02 SSP subtyping kit

					Well													
					17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
				Lot No.:	201190217	201318018	201206619	201206620	201206621	201190222	201190223	201206624	201206625	201190226	201190227	201190228	201190229	201190230	201190231	201190232
	IHWC cell line		A*	A*																
1	9001	SA	*24:02		-	-	+	-	-	+	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011	E4181324	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*30:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*02:01	*26:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020	QBL	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*24:02		-	-	+	-	-	+	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*24:02		-	-	+	-	-	+	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*03:01	*80:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257	32367	*33:03	*74:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*02:17		+	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*02:01	*34:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035	JBUSH	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*33:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*02:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*24:10	*29:01	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*02:01	*29:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*30:01	*68:02	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
31	9019	DUCAF	*30:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*02:06	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*02:17		+	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
39	9315	CML	*01:01	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*02:07	*30:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*02:07		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*02:06	*02:07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*66:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*23:01	*24:02	-	-	+	-	-	+	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*02:16	*03:01	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
48	9303	TER-ND	*02:01	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 29S **Lot-specific information**

CELL LINE VALIDATION SHEET

HLA-A*02 SSP subtyping kit

					Well														
					33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
				Lot No.:	201190233	201318034	201318035	201190236	201206637	201318038	201318039	201318040	201190241	201190242	201190243	201206644	201190245	201318046	201206647	201190248
	IHWC cell line		A*	A*																
1	9001	SA	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011	E4181324	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*30:01		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*02:01	*26:03	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
7	9020	QBL	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*03:01	*80:01	-	-	-	w	-	-	-	-	-	+	-	-	-	-	-	-
18	9257	32367	*33:03	*74:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*02:17		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
22	9056	KOSE	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*02:01	*34:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035	JBUSH	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*33:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*02:05		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
27	9191	CH1007	*24:10	*29:01	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*02:01	*29:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*30:01	*68:02	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*30:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*02:06	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*03:01		-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
38	9099	LZL	*02:17		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
39	9315	CML	*01:01	*03:01	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
40	9134	WHONP199	*02:07	*30:01	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*03:01		-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
42	9066	TAB089	*02:07		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*02:06	*02:07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*66:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*23:01	*24:02	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*03:01		-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
47	9045	TUBO	*02:16	*03:01	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
48	9303	TER-ND	*02:01	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 29S **Lot-specific information**

CELL LINE VALIDATION SHEET

HLA-A*02 SSP subtyping kit

					Well														
					49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
				Lot No.:	201206649	201190250	201190251	201190252	201190253	201190254	201206655	201190256	201190257	201190258	201206659	201190260	201190261	201190262	201318063	201206664
	IHWC cell line		A*	A*																
1	9001	SA	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011	E4181324	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*30:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*02:01	*26:03	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
7	9020	QBL	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*03:01	*80:01	-	-	w	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257	32367	*33:03	*74:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*02:17		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*02:01	*34:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035	JBUSH	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*33:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*02:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*24:10	*29:01	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*02:01	*29:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*30:01	*68:02	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
31	9019	DUCAF	*30:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*02:06	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*02:17		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*01:01	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*02:07	*30:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*02:07		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*02:06	*02:07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*66:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*23:01	*24:02	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*02:16	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*02:01	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: 29S **Lot-specific information**

CELL LINE VALIDATION SHEET

HLA-A*02 SSP subtyping kit

					Well														
					65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
				Lot No.:	201206665	201190266	201206667	201206668	201206669	201206670	201190271	201190272	201206673	201206674	201206675	201206676	201318077	201206678	201206679	201206680
	IHWC cell line		A*	A*																
1	9001	SA	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011	E4181324	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*30:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*02:01	*26:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020	QBL	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*03:01	*80:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257	32367	*33:03	*74:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*02:17		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*02:01	*34:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035	JBUSH	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*33:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*02:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*24:10	*29:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*02:01	*29:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*30:01	*68:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*30:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*02:06	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*02:17		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*01:01	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*02:07	*30:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*02:07		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*02:06	*02:07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*66:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*23:01	*24:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*02:16	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*02:01	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: 29S **Lot-specific information**

CELL LINE VALIDATION SHEET

HLA-A*02 SSP subtyping kit

					Well														
					81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
				Lot No.:	201206681	201318082	201206683	201206684	201318085	201206686	201318087	201206688	201206689	201206690	201206691	201190292	201190293	201206694	201190295	201206696
	IHWC cell line		A*	A*																
1	9001	SA	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011	E4181324	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*30:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*02:01	*26:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020	QBL	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*03:01	*80:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257	32367	*33:03	*74:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*02:17		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*02:01	*34:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035	JBUSH	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*33:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*02:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*24:10	*29:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*02:01	*29:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*30:01	*68:02	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
31	9019	DUCAF	*30:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*02:06	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*02:17		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*01:01	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*02:07	*30:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*02:07		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*02:06	*02:07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*66:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*23:01	*24:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*02:16	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*02:01	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: 29S **Lot-specific information**

CERTIFICATE OF ANALYSIS

Olerup SSP® HLA-A*02 SSP

Product number: **101.412-24/04 – including *Taq* pol.**
101.412-24u/04u – without *Taq* pol.

Lot number: **29S**
Expiry date: **2015-November-01**
Number of tests: **24 tests – Product No. 101.412-24/24u**
4 tests – Product No. 101.412-04/04u
Number of wells per test: **96**

Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2012-066-01	33	2011-902-33	65	2012-066-65
2	2012-033-02	34	2013-180-34	66	2011-902-66
3	2012-066-03	35	2013-180-35	67	2012-066-67
4	2011-902-04	36	2011-902-36	68	2012-066-68
5	2011-902-05	37	2012-066-37	69	2012-066-69
6	2011-902-06	38	2013-180-38	70	2012-066-70
7	2011-902-07	39	2013-180-39	71	2011-902-71
8	2011-902-08	40	2013-180-40	72	2011-902-72
9	2011-902-09	41	2011-902-41	73	2012-066-73
10	2011-902-10	42	2011-902-42	74	2012-066-74
11	2011-902-11	43	2011-902-43	75	2012-066-75
12	2011-902-12	44	2012-066-44	76	2012-066-76
13	2013-180-13	45	2011-902-45	77	2013-180-77
14	2011-902-14	46	2013-180-46	78	2012-066-78
15	2011-902-15	47	2012-066-47	79	2012-066-79
16	2012-033-16	48	2011-902-48	80	2012-066-80
17	2011-902-17	49	2012-066-49	81	2012-066-81
18	2013-180-18	50	2011-902-50	82	2013-180-82
19	2012-066-19	51	2011-902-51	83	2012-066-83
20	2012-066-20	52	2011-902-52	84	2012-066-84
21	2012-066-21	53	2011-902-53	85	2013-180-85
22	2011-902-22	54	2011-902-54	86	2012-066-86
23	2011-902-23	55	2012-066-55	87	2013-180-87
24	2012-066-24	56	2011-902-56	88	2012-066-88
25	2012-066-25	57	2011-902-57	89	2012-066-89
26	2011-902-26	58	2011-902-58	90	2012-066-90
27	2011-902-27	59	2012-066-59	91	2012-066-91
28	2011-902-28	60	2011-902-60	92	2011-902-92
29	2011-902-29	61	2011-902-61	93	2011-902-93
30	2011-902-30	62	2011-902-62	94	2012-066-94
31	2011-902-31	63	2013-180-63	95	2011-902-95
32	2011-902-32	64	2012-066-64	96	2012-066-96

Lot No.: 29S **Lot-specific information**

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

No DNAs carrying the alleles to be amplified by primer solutions 15, 20, 21, 24, 26, 29, 30, 32, 38, 40, 44, 46 to 48, 50, 52, 54, 56, 57, 59, 63 to 74, 76 to 90 and 92 to 96 were available.
The specificities of the primers in primer solutions 15, 20, 26, 30, 32, 38, 40, 46, 47, 52, 56, 57, 63, 65, 67, 69, 72, 73, 76 to 78, 80, 82 to 88 and 92 to 95 were tested by separately adding additional 5'-primers respectively 3'-primers.
In primer solutions 21, 24, 29, 54, 59, 68, 70, 71, 79, 81, 89 and 96 it was only possible to test the 5'-primer, the 3'-primer were not possible to test.
In primer solutions 44, 48, 64, 66, 74 and 90 it was only possible to test the 3'-primer, the 5'-primer was not possible to test.
In primer solution 50 neither the 5'-primers nor the 3'-primers were possible to test.
In primer solutions 3, 4, 8, 12, 15, 17 to 20, 25, 26, 28, 30, 32 to 40, 43, 45 to 47, 49, 56, 57, 65, 67, 69, 72, 73, 75 to 78, 80, 82 to 88, 92 and 94 one or several of the 3'-primers were not possible to test.
In primer solutions 11, 13, 14, 23, 30, 34, 38, 41, 46, 63, 67, 73, 76 to 78, 80, 82 to 85, 87, 91, 93 and 94 one or more of the 5'-primers were not possible to test.
Additional primers in primer solutions 10 to 13, 17, 23, 27, 31, 34, 35, 41, 49 and 91 were tested by separately adding either one additional 3'-primer or one additional 5'-primer.

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

Date of approval: 2013-July-08

Approved by:

Production Quality Control

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: 29S **Lot-specific information**

Declaration of Conformity

Product name: *Olerup* SSP® HLA-A*02
Product number: 101.412-24/24u, -04/04u
Lot number: 29S

Intended use: HLA-A*02 high resolution histocompatibility testing

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

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

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

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

Stockholm, Sweden
2014-September-02

Daniel Malica
Head of QA and Regulatory Affairs

101.412-24/04 – including *Taq* polymerase, IFU-01
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