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HLA-A*02   **Release Note**   **Page 1 of 3**
101.412-24/04 – including *Taq* polymerase
101.412-24u/04u – without *Taq* polymerase
Lot No.: 15V

Olerup SSP® HLA-A*02

Product number: **101.412-24/04 – including *Taq* pol.**
                             101.412-24u/04u – without *Taq* pol.
Lot number: **15V**
Expiry date: **2016-July-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: **95+1**

CHANGES COMPARED TO THE PREVIOUS **HLA-A*02** LOT (29S):

Well	5'-primer	3'-primer	rationale
5	-	Added	3'-primer added for the A*02:01:96 allele.
20	-	Added	3'-primer added for improved allelic resolution of the A*02:33 and 02:198 alleles.
24	-	Added	3'-primer added for the A*02:393 allele.
25	-	Added	3'-primer added for the A*02:384 allele.
27	Added	-	5'-primer added for the A*02:407 allele.
39	-	Added	3'-primer added from well 96, 3'-primer added for the A*02:439N allele.
40	-	Added	3'-primer added from well 96.
44	Added	-	5'-primer added for the A*02:342 allele.
65	Added	-	5'-primer added for the A*02:342 and A*02:440Q alleles.
66	Added	-	5'-primer added for improved allelic resolution of the A*02:30 and A*02:01:83 alleles.
67	Added	-	5'-primer added for improved allelic resolution of the A*02:07 and A*02:322 alleles, 5'-primer added for the A*02:407 allele.
68	-	Added	3'-primer added for improved allelic resolution of the A*02:119 and A*02:158 alleles.
70	-	Added	3'-primer added for improved allelic resolution of the A*02:133 and A*02:250 alleles.
71	-	Added	3'-primer added from well 96.
75	-	Added	3'-primer added for the A*02:384 allele.
76	Added	-	5'-primer added for the A*02:342 allele.
79	-	Added	3'-primer added for the A*02:419 allele.
83	-	Added	3'-primer added for the A*02:440Q allele.
88	-	Added	3'-primer added from well 96.
89	-	Added	3'-primer added for the A*02:426 allele.
90	Added	-	5'-primer added for the A*02:377 allele.
92	-	Added	3'-primer added from well 96.
94	Added		5'-primer added for the A*02:377 allele.
96	-	Moved	Negative Control, 3'-primers moved to wells 39, 40, 71, 88 and 92.

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THE NUMBER OF WELLS is unchanged.

ALLELE COVERAGE:

All HLA-A*02 alleles recognized in July 2012, i.e. A*02:01 to A*02:456, will be amplified by the primers in the HLA-A*02 subtyping kit; www.ebi.ac.uk/imgt/hla, 2013-October-11, release 3.14.0.

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.

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 following HLA-A*02 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix	Alleles	Primer mix
A*02:28, 02:409	27	A*02:134, 02:314N	85
A*02:97:01-02:97:02, 02:305N	59	A*02:138, 02:284N	87
A*02:107, 02:202, 02:251	65	A*02:139, 02:235	88
A*02:111, 02:350N	67	A*02:141, 02:275	90
A*02:116, 02:196	71	A*02:150, 02:197, 02:325	94
A*02:119, 02:263	73	A*02:180, 02:358	29
A*02:120, 02:223N	74	A*02:193, 02:213	78
A*02:132, 02:215, 02:237	83	A*02:269, 02:367	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, 02:01:84-02:01:86 and 02:01:89-02:01:90 and 02:01:92-02:01:99 alleles, the A*02:243:01-02:243:02 alleles, the A*02:01:17, 02:01:52, 02:01:63 and 02:01:74 alleles, the A*02:01:87 and 02:01:91 alleles, the A*02:03:01 and 02:03:03-02:03:06 alleles, the A*02:05:01-02:05:06 alleles, the A*02:06:01-02:06:11 and 02:06:13-02:06:15 alleles, the A*02:07:01-02:07:03 alleles, the A*02:11:01, 02:11:03-02:11:05 alleles, the A*02:17:01-02:17:03 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-October-11, release 3.14.0, www.ebi.ac.uk/imgt/hla.
[2]Alleles that have been deleted from or renamed in the official WHO HLA Nomenclature up to and including the last IMGT/HLA database release can be retrieved from web page http://hla.alleles.org/alleles/deleted.html.

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RESOLUTION IN HLA-A*02 HOMO- AND HETEROZYGOTES:
Good.

INFLUENCE ON THE INTERPRETATION OF HLA-A*02 SUBTYPINGS BY NON-HLA-A*02 ALLELES:
A*02:01,68:xx = A*02:95,68:xx.

MODIFICATIONS MADE DUE TO COMMENTS FROM CUSTOMERS:
No comments received.