

101.412-24/04 – including *Taq* polymerase

101.412-24u/04u – without *Taq* polymerase

Lot No.: 7D9

## Olerup SSP® HLA-A\*02

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

**Lot number:** 7D9

**Expiry date:** 2018-11-01

**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 (95Y):

Well	5'-primer	3'-primer	rationale
26	-	Modified	3'-primer modified for improved HLA-specific amplification.
27	Added	-	5'-primer added for the A*02:597 allele.
30	-	Added	3'-primer added for the A*02:608N allele.
46	Removed, Added	Removed, Added	Primer pair removed for improved HLA-specific amplification, primer pair added for the A*02:66 allele.
59	-	Added	3'-primer added for the A*02:608N allele.
63	Added	-	5'-primer added for the A*02:605Q allele.
75	-	Removed	3'-primer removed for improved HLA-specific amplification.
85	Added	-	5'-primer added for the A*02:605Q allele.
90	Added	-	5'-primer added for the A*02:591 allele.
93	Added	-	5'-primer added for the A*02:157:02 allele.
94	Added	-	5'-primer added for the A*02:597 allele.

THE NUMBER OF WELLS is unchanged.

### ALLELE COVERAGE:

A\*02:01 to A\*02:610, i.e. all the currently recognized HLA-A\*02 alleles, will be amplified by the primers in the HLA-A\*02 subtyping kit<sup>1</sup>, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla), 2016-January-19, release 3.23.0.

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.

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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*02:01:02, 02:141, 02:275	90	A*02:134, 02:314N	85
A*02:01:83, 02:01:105, 02:01:107, 02:343, 02:399	55	A*02:138, 02:284N	87
A*02:06:05, 02:06:09, 02:72	90	A*02:139, 02:235	88
A*02:28, 02:409	27	A*02:140, 02:468:02N	89
A*02:60:01-02:60:02, 02:254, 02:501N	45	A*02:145, 02:221	64
A*02:96, 02:587	15	A*02:150, 02:197, 02:325	94
A*02:97:01-02:97:02, 02:305N	59	A*02:159, 02:293Q, 02:364, 02:390	39
A*02:107, 02:202, 02:251, 02:581	65	A*02:180, 02:358	29
A*02:111, 02:350N	67	A*02:193, 02:213	78
A*02:116, 02:196	71	A*02:233, 02:459	24
A*02:119, 02:263	73	A*02:269, 02:367	70
A*02:120, 02:223N	74	A*02:301N, 02:524	63
A*02:132, 02:215, 02:237, 02:467	83	A*02:419, 02:476N	79

The HLA-A\*02 subtyping kit cannot distinguish the silent mutations in the A\*02:01:01:01, 02:01:01:03-02:01:01:06, 02:01:04-02:01:13, 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, 02:01:89-02:01:90, 02:01:92-02:01:100, 02:01:102-02:01:104, 02:01:108-02:01:112, 02:01:114-02:01:117, 02:01:119, 02:01:121 and 02:217:01 alleles, the A\*02:01:03, 02:01:101, 02:01:106, 02:01:120 and 02:243:01-02:243:02 alleles, the A\*02:01:17, 02:01:52, 02:01:63, 02:01:74 and 02:01:113 alleles, the A\*02:01:83, 02:01:105 and 02:01:107 alleles, the A\*02:01:87, 02:01:91 and 02:01:118 alleles, the A\*02:02:01-02:02:02 alleles, the A\*02:03:01 and 02:03:03-02:03:08 alleles, the A\*02:05:01-02:05:06 alleles, the A\*02:06:01:01-02:06:04, 02:06:06-02:06:08, 02:06:10-02:06:11, 02:06:13-02:06:19 and 02:06:21-02:06:22 alleles, the A\*02:06:05 and 02:06:09 alleles, the A\*02:06:12 and 02:06:20 alleles, the A\*02:07:01-02:07:08 alleles, the A\*02:11:01, 02:11:03-02:11:09 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\*02:64:01-02:64:02 alleles, the A\*02:74:01-02:74:02 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, the A\*02:113:01N-02:113:02N alleles, the A\*02:153:01-02:153:02 alleles, the A\*02:157:01-02:157:02 alleles, the A\*02:171:01-02:171:02 alleles and the A\*02:289:01-02:289:02 alleles.

<sup>1</sup>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:**

In primer mix 26, one 3'-primer was modified for improved HLA-specific amplification.