

101.412-24/04 – including *Taq* polymerase

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

Lot No.: **8H9**

Olerup SSP[®] HLA-A*02

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

Lot number: 8H9

Expiry date: 2022-02-01

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 (1G9):

Well	5'-primer	3'-primer	rationale
2	Added	Added	5'-primers added for the A*02:01:101 and A*02:01:106 alleles. 3'-primer added for the A*02:01:03 allele.
12	Removed	Moved	5'-primer removed. 3'-primer moved to mixes 33 and 83 for improved resolution of the A*02:01 and the A*02:05 allele.
13	Removed	Moved	5'-primer removed. 3'-primer moved to mix 78 for improved resolution of the A*02:01 and the A*02:05 allele.
32	Added	-	5'-primer added for the A*02:131 allele
33	-	Added	3'-primer from mix 12 added for the A*02:85 allele.
41	Added	-	5'-primers added from mix 71.
71	Moved, added	Added	5'-primer moved to mix 41. Primer pair added for improved resolution of the A*02:30 allele. Redundant primers removed.
78	Added	-	5'-primer added from mix 13 for the A*02:84 allele. 5'-primer added for improved yield of the A*02:01:14Q allele.
79	-	-	Control primer pair exchanged for reduced tendency of oligomer formation.
80	Added	-	5'-primer added for improved yield of the A*02:01:14Q allele.
82	-	Removed	Redundant 3'-primer removed.
83	-	Added	3'-primer for A*02:85 added from mix 12. 3'-primer added for improved yield.

THE NUMBER OF WELLS is unchanged.

ALLELE COVERAGE:

A*02:01 to A*02:837, i.e. all the currently recognized HLA-A*02 alleles, will be amplified by the primers in the HLA-A*02 subtyping kit¹, www.ebi.ac.uk/imgt/hla, 2019-April-17, release 3.36.0.

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The HLA-A*02 kit enables separation of the confirmed HLA-A*02 alleles as listed in the IMGT/HLA database 3.25.0. 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 many 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*02:01:83, 02:01:105, 02:01:107, 02:01:129, 02:01:138, 02:343, 02:399, 02:668, 02:699	55	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*02:141, 02:275	90
A*02:70, 02:820	32		
A*02:96, 02:587	15	A*02:145, 02:221	64
A*02:97:01-02:97:02, 02:305N	59	A*02:150:01, 02:197:01-02:197:02, 02:325, 02:745	94
A*02:107, 02:202, 02:251	65	A*02:159, 02:293Q, 02:364, 02:390	39
A*02:111, 02:350N, 02:679	67	A*02:180, 02:358	29
A*02:119, 02:263, 02:553	73	A*02:193, 02:213	78
A*02:120, 02:223N	74	A*02:233, 02:459	24
A*02:132, 02:215, 02:237, 02:467	83	A*02:269, 02:367	70
A*02:134, 02:314N	85	A*02:301N, 02:524:01-02:524:02	63

¹Alleles 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>.

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:

5'-primer added from mix 13 for the A*02:84 allele. 5'-primer added for improved yield of the A*02:01:14Q allele.

5'-primer added for improved yield of the A*02:01:14Q allele.

Primer pairs added to mix 41 for improved resolution of the A*02:30 allele.