

101.413-24/04 – including *Taq* polymerase  
 101.413-24u/04u – without *Taq* polymerase

Lot No.: **53V**

## Olerup SSP® HLA-A\*03

**Product number:** 101.413-24/04 – including *Taq* pol.  
 101.413-24u/04u – without *Taq* pol.

**Lot number:** 53V

**Expiry date:** 2016-September-01

**Number of tests:** 24 tests – Product No. 101.413-24  
 4 tests – Product No. 101.413-04

**Number of wells per test:** 63+1

**CHANGES COMPARED TO THE PREVIOUS HLA-A\*03 LOT (88R):**

Well	5'-primer	3'-primer	rationale
12	Modified	-	5'-primer modified for improved HLA-specific amplification.
25	Modified	-	Modified 5'-primer for improved HLA-specific amplification.
28	Exchanged	Exchanged	Primer pair exchanged for the A*03:26 allele.
31	Modified	-	Modified 5'-primers for decreased primer oligomer formation.
37	-	Added	3'-primer added for the A*03:168N allele.
38	-	Added	3'-primer added from well 61.
39	-	Added	3'-primer added for the A*03:182 allele.
44	-	Added	3'-primer added from well 61.
46	Modified	-	Modified 5'-primer for decreased primer oligomer formation.
52	-	Added	3'-primer added for the A*03:168N allele.
54	-	Added	3'-primer added for the A*03:178N allele.
56	Added	Added	Primer pair added for the A*03:182 allele.
58	-	Modified	Modified 3'-primer for improved HLA-specific amplification.
59	-	Added	3'-primer added for the 03:178N allele.
61	Moved, added	Moved, added	Primer pair moved to well 38 and 44, primer pair added from well 64.
62	Added	-	5'-primer added for the A*03:162N allele.
64	Moved	Moved	Primer pair moved to well 61, Negative Control.

**THE NUMBER OF WELLS** is unchanged.

**ALLELE COVERAGE:**

A\*03:01 to A\*03:182, i.e. all the currently recognized HLA-A\*03 alleles, will be amplified by the primers in the HLA-A\*03 subtyping kit<sup>1</sup>; [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla), 2014-January-17<sup>1,2,3</sup>, release 3.15.0.

The HLA-A\*03 kit enables separation of the confirmed HLA-A\*03 alleles as listed in the IMGT/HLA database. An HLA allele is listed as confirmed by IMGT/HLA if

101.413-24/04 – including *Taq* polymerase  
101.413-24u/04u – without *Taq* polymerase

Lot No.: **53V**

it has been sequenced by more than a single laboratory or from multiple sources.

The HLA-A\*03 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 HLA-A\*03 subtyping kit cannot distinguish following silent mutations: the A\*03:01:01:01, 03:01:01:03, 03:01:03-03:01:05, 03:01:07, 03:01:09-03:01:11, 03:01:13, 03:01:15-03:01:22, 03:01:24-03:01:29 and 03:01:31-03:01:44 alleles, the A\*03:01:02, 03:01:06 and 03:01:14 alleles, the A\*03:01:12 and 03:01:23 alleles, the A\*03:02:01-03:02:03 alleles, the \*03:04:01-03:04:03 alleles, the \*03:17:01-03:17:02 alleles, the A\*03:22:01-03:22:02 alleles, the A\*03:23:01-03:23:02 and the A\*03:123:01-03:123:02 alleles.

The following HLA-A\*03 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix	Alleles	Primer mix
A*03:16, 03:61	20	A*03:33, 03:70	36
A*03:17:01-03:17:02, 03:74	21	A*03:38, 03:68N	41
A*03:20, 03:47	43	A*03:44, 03:53	46
A*03:22:01-03:22:02, 03:103	23	A*03:78, 03:161N	49
A*03:25, 03:71	27	A*03:118, 03:134	57
A*03:27, 03:49	30	A*03:132, 03:162N	62

<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>.

<sup>2</sup>The HLA-A\*03 primer set cannot separate the A\*03:79 and A\*03:130 alleles.

<sup>3</sup>The HLA-A\*03 primer set cannot separate the A\*03:05:02 and A\*30:55 alleles. These alleles can be distinguished by the HLA-A low resolution kit and/or the HLA-A\*30 high resolution kit.

The HLA-A\*03 primer set cannot separate the A\*03:95 and 74:13 alleles. These alleles can be distinguished by the HLA-A low resolution kit and/or the HLA-A\*74 high resolution kit.

#### RESOLUTION IN HLA-A\*03 HOMO- AND HETEROZYGOTES:

The A\*03:01,03:01 genotype gives rise to a unique amplification pattern with respect to confirmed A\*03 alleles.

#### INFLUENCE ON THE INTERPRETATION OF HLA-A\*03 SUBTYPINGS BY NON-HLA-A\*03 ALLELES:

None frequently occurring.

#### MODIFICATIONS MADE DUE TO COMMENTS FROM CUSTOMERS:

5'-primer modified in primer mixes 12 and 25 for improved HLA-specific amplification.