

101.523-24/03 – including *Taq* polymerase

101.523-24/03u – without *Taq* polymerase

Lot No.: 9D1

## Olerup SSP® HLA-B\*40

**Product number:** 101.523-24/03 – including *Taq* pol.  
101.523-24/03u – without *Taq* pol.

**Lot number:** 9D1

**Expiry date:** 2018-12-01

**Number of tests:** 24 tests – Product No. 101.523-24/24u  
3 tests – Product No. 101.523-03/03u

**Number of wells per test:** 93+1

### CHANGES COMPARED TO THE PREVIOUS HLA-B\*40 LOT (53X):

Well	5'-primer	3'-primer	rationale
3	-	Modified	3'-primer modified for improved HLA-specific amplification.
14	-	Modified	3'-primer modified for improved HLA-specific amplification.
36	-	Modified	3'-primer modified for improved HLA-specific amplification.
42	-	Modified	3'-primer modified for improved HLA-specific amplification.
45	Added	-	5'-primer added for the B*40:301 allele.
46	-	Modified	3'-primer modified and strength of control band has been optimized for increased yield.
47	-	Modified	3'-primer modified for improved HLA-specific amplification.
73	Added	-	5'-primer added for the B*40:301 allele.
79	-	Added	3'-primer added for the B*40:292 allele.
81	Added	-	5'-primer added for the B*40:299 allele.
88	-	Added	3'-primer added for the B*40:209 allele.
90	Added	-	5'-primer added for the B*40:299 allele.
91	Added	Added	Primer pair added for the B*40:303 allele.
92	Added	Added	Negative control moved to well 94, primer pair added for the B*40:309 allele.
93	New	New	New primer pair added for the B*40:310 allele.
94	-	-	Negative control added from well 92.

**THE NUMBER OF WELLS** is increased from 92 to 94 wells.

#### ALLELE COVERAGE:

B\*40:01 to B\*40:327, i.e. all the currently recognized HLA-B\*40 alleles, will be amplified by the primers in the HLA-B\*40 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-B\*40 kit enables separation of the confirmed HLA-B\*40 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.

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The HLA-B\*40 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-B\*40 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix
B*40:69, 40:221	56

The HLA-B\*40 subtyping kit cannot distinguish the silent mutations in the B\*40:01:01-40:01:05, 40:01:07-40:01:10, 40:01:12-40:01:27 and 40:01:29-40:01:44 alleles, the B\*40:02:01-40:02:03, 40:02:05-40:02:15, 40:02:17 and 40:02:19-40:02:24 alleles, the B\*40:06:01:01-40:06:04, 40:06:06-40:06:14 and 40:70:02 alleles, the B\*40:10:01:01-40:10:01:02 alleles, the B\*40:14:02-40:14:03 alleles, the B\*40:35:01-40:35:02 alleles, the B\*40:87:01-40:87:02 alleles, the B\*40:114:01-40:114:02 alleles, the B\*40:124:01-40:124:02 alleles, the B\*40:130:01-40:130:02 alleles, the B\*40:155:01N-40:155:02N alleles or the B\*40:160:01-40:160:02.

<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>.

**RESOLUTION IN HLA-B\*40 HOMO- AND HETEROZYGOTES:**

Good.

**INFLUENCE ON THE INTERPRETATION OF HLA-B\*40 SUBTYPINGS BY NON-HLA-B\*40 ALLELES:**

None frequently occurring.

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

No comments received.