

101.114-24/03 – including *Taq* polymerase  
101.114-24u/03u – without *Taq* polymerase

Lot No.: **18V**

## Olerup SSP® DRB1\*04

**Product number:** 101.114-24/03 – including *Taq* pol.  
101.114-24u/03u – without *Taq* pol.

**Lot number:** 18V

**Expiry date:** 2016-July-01

**Number of tests:** 24 tests – Product No. 101.114-24  
3 tests – Product No. 101.114-03

**Number of wells per test:** 47+1

### CHANGES COMPARED TO THE PREVIOUS DRB1\*04 LOT (33R):

Well	5'-primer	3'-primer	rationale
3	Added	-	5'-primer added for the DRB1*04:160 allele.
10	-	Added	3'-primers added for the DRB1*04:04:07 and DRB1*04:08:03 alleles.
16	Added	-	5'-primer added for the DRB1*04:160 allele.
19	-	Modified	3'-primer modified for decreased tendencies of unspecific amplification.
21	-	Modified, Moved	3'-primer modified for decreased tendencies of unspecific amplification, 3'-primers moved to well 40.
24	Added	-	5'-primer added for the DRB1*04:01:12 allele.
33	-	Added	3'-primer added for the DRB1*04:158N allele
39	-	Added	3'-primer added for the DRB1*04:154 allele.
40	-	Added	3'-primers added from well 21.
41	-	Added	3'-primer added for the DRB1*04:108 allele.
42	-	Added	3'-primer added for the DRB1*04:164 allele.
45	-	Added	3'-primer added for the DRB1*04:157N allele.
47	-	Modified, added	Exchanged control primer pair, 3'-primer modified for decreased tendencies of unspecific amplification, 3'-primer added for the DRB1*04:142N allele.
48	-	-	Negative Control

**THE NUMBER OF WELLS** has been increased from 47 to 48.

#### ALLELE COVERAGE:

DRB1\*04:01 to DRB1\*04:164, i.e. all the currently recognized DRB1\*04 alleles, are amplified by the DRB1\*04 kit; [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla), 2013-October-11, release 3.14.0.

The DRB1\*04 kit enables separation of the confirmed DRB1\*04 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 DRB1\*04 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 DRB1\*04 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix
DRB1*04:16, 04:151	12
DRB1*04:27, 04:110	20
DRB1*04:39, 04:101	19

The DRB1\*04 subtyping kit cannot distinguish the silent mutation in the DRB1\*04:01:01-04:01:13 alleles, the DRB1\*04:02:01-04:02:03 alleles, the DRB1\*04:03:01-04:03:07 alleles, the DRB1\*04:04:01-04:04:03 and 04:04:06-04:04:08 alleles, the DRB1\*04:05:01, 04:05:03-04:05:07 and 04:05:09-04:05:11, 04:05:13-04:05:14 and 04:05:16 alleles, the 04:05:02 and 04:05:16 alleles, the DRB1\*04:06:01-04:06:05 alleles, the DRB1\*04:07:01-04:07:04 alleles, the DRB1\*04:08:01-04:08:03 alleles, the DRB1\*04:11:01-04:11:02 alleles, the DRB1\*04:17:01-04:17:02 alleles and the DRB1\*04:105:01-04:105:02 alleles.

<sup>1</sup>DRB1 alleles listed on the IMGT/HLA web page 2013-October-11, release 3.14.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

<sup>2</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 DRB1\*04 HOMOZYGOTES:**

Good.

#### **INFLUENCE ON THE INTERPRETATION OF DRB1\*04 SUBTYPINGS BY NON-DRB1\*04 ALLELES:**

None of importance.

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