

101.114-24/03 – including *Taq* polymerase

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

Lot No.: **95X**

Olerup SSP® DRB1*04

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

Lot number: 95X

Expiry date: 2017-August-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 (18V):

Well	5'-primer	3'-primer	rationale
1	-	Added	3'-primer added for the DRB1*04:01:15 allele.
9	-	Modified	3'-primer modified for improved HLA-specific amplification.
15	Added	-	5'-primer added for the DRB1*04:123 allele.
16	Removed, added	Removed, added	Primer pair removed, primer pairs added for the DRB1*04:116 and DRB1*04:148 alleles, exchanged positive control primer pair.
38	-	Added	3'-primer added for the DRB1*04:178N allele.
44	-	Added	3'-primer added for the DRB1*04:127 allele.
47	-	Added	3'-primer added for the DRB1*04:117 allele.
48	-	-	Updated negative control.

THE NUMBER OF WELLS is unchanged.

ALLELE COVERAGE:

DRB1*04:01 to DRB1*04:186N, i.e. all the currently recognized DRB1*04 alleles, are amplified by the DRB1*04 kit^{1,2}; www.ebi.ac.uk/imgt/hla, 2014-October-10, release 3.18.0.

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.

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	Alleles	Primer mix
DRB1*04:16, 04:151	12	DRB1*04:39, 04:101	19
DRB1*04:23, 04:180	12	DRB1*04:89, 04:178N	38
DRB1*04:27, 04:110	20	DRB1*04:117, 04:119N	47

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The DRB1*04 subtyping kit cannot distinguish the silent mutation in the DRB1*04:01:01-04:01:16 alleles, the DRB1*04:02:01-04:02:03 alleles, the DRB1*04:03:01-04:03:07 and 04:03:09-04:03:10 alleles, the DRB1*04:04:01-04:04:03 and 04:04:06-04:04:09 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 05:05:02 and 04:05:15 alleles, the DRB1*04:06:01-04:06:05 alleles, the DRB1*04:07:01-04:07:05 alleles, the DRB1*04:08:01-04:08:03 alleles, the DRB1*04:10:01 and 04:10:03 alleles, the DRB1*04:11:01-04:11:02 alleles, the DRB1*04:17:01-04:17:02 alleles, the DRB1*04:56:01-04:56:02 alleles and the DRB1*04:105:01-04:105:02 alleles.

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>.

²The DRB1*04:34 and the DRB1*01:10 alleles will give rise to identical amplification patterns with the DRB1*04 subtyping kit. These alleles can be distinguished by the DR low resolution kit and/or the DRB1*01 subtyping kit.

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:

No suggestions received.