

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

Lot No.: **33R**

Olerup SSP® DRB1*04

Product number: 101.114-24/03 – including *Taq* pol.
101.114-24u/03u – without *Taq* pol.
Lot number: 33R
Expiry date: 2015-April-01
Number of tests: 24 tests – Product No. 101.114-24
3 tests – Product No. 101.114-03
Number of wells per test: 47

CHANGES COMPARED TO THE PREVIOUS DRB1*04 LOT (40M):

Well	5'-primer	3'-primer	rationale
14	-	Modified	Improved specificity of amplification
16	Exchanged	-	Decreased tendencies of primer oligomer formation.
21	-	Exchanged	Improved allelic resolution, exchanged positive control primer pair.
23	Exchanged	Exchanged	Exchanged primer pair for decreased tendencies of primer oligomer formation.
36	Added	-	5'-primer added for the DRB1*04:96 allele.
44	-	Added	3'-primer added for the DRB1*04:120N allele.
45	-	Exchanged	Decreased tendencies of primer oligomer formation.
46	New	New	New primer pair for the DRB1*04:92 allele.
47	New	New	New primer pair for the DRB1*04:119N allele.

THE NUMBER OF WELLS has been increased from 45 to 47.

ALLELE COVERAGE:

DRB1*04:01 to DRB1*04:124, i.e. all the currently recognized DRB1*04 alleles, are amplified by the DRB1*04 kit; www.ebi.ac.uk/imgt/hla, 2012-July-12, release 3.9.0.

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 DRB1*04:27 and 04:110 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 20.

The DRB1*04:39 and 04:101 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 19.

The DRB1*04 subtyping kit cannot distinguish the silent mutation in the DRB1*04:01:01-04:01:09 alleles, the DRB1*04:02:01-04:02:03 alleles, the DRB1*04:03:01-04:03:08 alleles,

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the DRB1* 04:04:01-04:04:04 and 04:04:06 alleles, the DRB1*04:05:01, 04:05:03-04:05:07 and 04:05:09-04:05:14 alleles, the DRB1*04:06:01-04:06:05 alleles, the DRB1*04:07:01-04:07:04 alleles, the DRB1*04:08:01-04:08:02 alleles, the DRB1*04:10:01-04:10:02 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.

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:

Primer mix 23 has been exchanged to decrease tendencies of primer oligomer formation.