

DRB1*04

101.114-24/03 – including *Taq* polymerase

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

Lot No.: **9D2**

Olerup SSP® DRB1*04

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

Lot number: 9D2

Expiry date: 2018-12-01

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 (95X):

| Well | 5'-primer | 3'-primer | rationale |
|------|-----------|-----------|---|
| 5 | - | Added | 3'-primers added for the DRB1*04:05:18 and the DRB1*04:11:03 alleles. |
| 23 | Added | Added | Primer pair added for the DRB1*04:201 allele. |
| 33 | - | Moved | 3'-primer moved to well 37 for improved HLA-specific amplification. |
| 34 | Added | - | 5'-primer added for the DRB1*04:34 allele. |
| 36 | Exchanged | Exchanged | Primer pair exchanged for the DRB1*04:96 allele. |
| 37 | - | Added | 3'-primer added from well 33 for the DRB1*04:65 allele. |
| 41 | - | Added | 3'-primer added for the DRB1*04:182 allele. |

THE NUMBER OF WELLS is unchanged.

ALLELE COVERAGE:

DRB1*04:01 to DRB1*04:207, i.e. all the currently recognized DRB1*04 alleles, are amplified by the DRB1*04 kit¹; www.ebi.ac.uk/imgt/hla, 2016-January-19, release 3.23.0.

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 |

DRB1*04**101.114-24/03 – including *Taq* polymerase****101.114-24u/03u – without *Taq* polymerase****Lot No.: 9D2**

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

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.