

Olerup SSP® DRB1*13

Product number: 101.116-24/24u – including *Taq* pol.
101.116-03/03u – without *Taq* pol.
Lot number: 9D4
Expiry date: 2019-01-01
Number of tests: 24 tests – Product No. 101.116-24/24u
3 tests – Product No. 101.116-03/03u
Number of wells per test: 54+1

CHANGES COMPARED TO THE PREVIOUS DRB1*13 LOT (01Y):

| Well | 5'-primer | 3'-primer | rationale |
|------|-----------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 5 | - | Removed | 3'-primer removed for improved HLA-specific amplification. |
| 11 | - | Removed | 3'-primer removed for improved HLA-specific amplification. |
| 14 | Exchanged | - | 5'-primer exchanged for improved HLA-specific amplification. |
| 15 | Moved | Moved, Modified | Primer pair moved to well 54, 3'-primer modified for increased yield and improved HLA-specific amplification. |
| 43 | Moved, Modified | Moved | Primer pair moved to well 53 for decreased tendency of primer oligomer formation, 5'-primer modified for increased yield of the DRB1*13:117 allele. |
| 45 | - | Modified | 3'-primer modified for improved HLA-specific amplification. |
| 48 | Moved, Added | Moved, Added | Negative control moved to well 55, primer pair added for the DRB1*13:197 allele. |
| 49 | New | New | New primer pair added for the DRB1*13:199 allele. |
| 50 | New | New | New primer pair added for the DRB1*13:200N allele. |
| 51 | New | New | New primer pair added for the DRB1*13:206 allele. |
| 52 | New | New | New primer pair added for the DRB1*13:208 allele. |
| 53 | Added | Added, Exchanged | Primer pair added from well 43, 3'-primer exchanged for decreased tendency of primer oligomer formation. |
| 54 | Added | Added | Primer pair added from well 15. |
| 55 | - | - | Negative control added from well 48. |

THE NUMBER OF WELLS is increased from 48 to 55 wells.

ALLELE COVERAGE:

DRB1*13:01 to DRB1*13:214, i.e. all the currently recognized DRB1*13 alleles, will be amplified by the primers in the DRB1*13 subtyping kit^{1,2}; www.ebi.ac.uk/imgt/hla, 2016-May-04, release 3.24.0.1.

The DRB1*13 kit enables separation of the confirmed DRB1*13 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*13 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*13 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

| Alleles | Primer mix |
|-------------------|------------|
| DRB1*13:92, 13:98 | 36 |

The DRB1*13 subtyping kit cannot distinguish the following silent mutations: the DRB1*13:01:01:01-13:01:02, 13:01:04-13:01:06, 13:01:08 and 13:01:10-13:01:16, the DRB1*13:02:01, 13:02:03-13:02:08 and 13:02:11-13:02:12, the DRB1*13:03:01-13:03:06, the DRB1*13:05:01-13:05:03, the DRB1*13:07:01-13:07:02, the DRB1*13:11:01-13:11:02, the DRB1*13:12:01-13:12:04, DRB1*13:14:01-13:14:03, the DRB1*13:21:01-13:21:02, the DRB1*13:23:01-13:23:02, the DRB1*13:33:02-13:33:03, the DRB1*13:50:02-13:50:03 and the DRB1*13:66:01-13:66:02 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*13 primer set cannot separate the DRB1*13:165 and 13:171:01 from DRB1*11:20 alleles. These alleles can be distinguished by the DR low resolution kit and/or DRB1*11 high resolution kit.

RESOLUTION IN DRB1*13 HOMOZYGOTES:

Good.

INFLUENCE ON THE INTERPRETATION OF DRB1*13 SUBTYPINGS BY NON-DRB1*13 ALLELES:

None of importance.

MODIFICATIONS MADE DUE TO COMMENTS FROM CUSTOMERS:

In primer mix 43, one 5'-primer was modified for increased yield of the DRB1*13:117 allele.

Change in revision R01 compared to R00:

1. The allele database information has been corrected.