

**101.311-24/04 – including *Taq* polymerase**

**101.311-24u/04u – without *Taq* polymerase**

**Lot No.: 9E3**

## **Olerup SSP® DPB1**

**Product number:** 101.311-24/04 – including *Taq* pol.  
101.311-24u/04u – without *Taq* pol.

**Lot number:** 9E3

**Expiry date:** 2019-10-01

**Number of tests:** 24 tests – Product No. 101.311-24/24u  
4 tests – Product No. 101.311-04/04u

**Number of wells per test:** 95+1

### **CHANGES COMPARED TO THE PREVIOUS DPB1 LOT (9D9):**

<b>Well</b>	<b>5'-primer</b>	<b>3'-primer</b>	<b>rationale</b>
3	Modified	-	5'-primer modified for increased yield.
12	Modified, added	-	5'-primer modified for improved HLA-specific amplification, 5'-primer added for the DPB1*02:01:03 allele.
40	Modified	-	5'-primer modified for increased yield.
44	Added	Added	Primer pair added for the DPB1*38:01 allele.
51	Added	-	5'-primer added for the DPB1*570:01N allele.
52	Added	-	5'-primers added for the DPB1*511:01 and DPB1*570:01N alleles.
53	-	Added	3'-primer added for the DPB1*501:01 allele.
54	-	Added	3'-primers added for the DPB1*454:01 and DPB1*505:01 alleles.
55	Added	-	5'-primer added for the DPB1*511:01 allele.
59	Modified	Modified	5'- and 3'-primer modified for increased yield.
63	-	Modified, added	Positive control primer pair exchanged, 3'-primers modified for improved HLA-specific amplification, 3'-primer added for the DPB1*539:01 allele.
64	-	Added	3'-primer added for the DPB1*475:01 allele.
65	-	Added	3'-primer added for the DPB1*475:01 allele.
66	-	Added	Positive control primer pair exchanged, 3'-primer added for the DPB1*539:01 allele.
67	-	Added	3'-primer added for the DPB1*501:01 allele.
69	Moved, modified	-	5'-primer moved for decreased tendency of primer oligomer formation, 5'-primer modified for improved HLA-specific amplification, positive control primer pair exchanged.
70	Modified, added	-	5'-primer modified for improved HLA-specific amplification, 5'-primer added for the DPB1*551:01N allele.
73	-	Added	3'-primer added for the DPB1*512:01 allele.
76	Added	-	5'-primer added for the DPB1*423:01:02 allele.
77	Added	-	5'-primer added for the DPB1*488:01 allele.
78	Added	-	5'-primer added for the DPB1*485:01 allele.
79	Added	-	5'-primer added for the DPB1*551:01N allele.
80	Added	-	5'-primer added for the DPB1*488:01 allele.

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85	-	Added	Positive control primer pair exchanged, 3'-primers added for the DPB1*572:01 and DPB1*585:01 alleles.
86	Added	-	5'-primer added from well 69, 5'-primer added for the DPB1*485:01 allele.
89	-	Modified	3'-primer modified for improved HLA-specific amplification.
90	-	Added	3'-primer added for the DPB1*571:01 allele.
93	Added	-	5'-primer added for the DPB1*598:01N allele.
94	-	Added	3'-primer added for the DPB1*454:01 allele.

**THE NUMBER OF WELLS** is unchanged.

**ALLELE COVERAGE:**

DPB1\*01:01 to DPB1\*612:01, i.e. all the recognized DPB1 alleles, will be amplified by the primers in the DPB1 SSP kit<sup>1</sup>; [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla), 2016-October-14, release 3.26.0.

The DPB1 kit enables separation of the confirmed DPB1 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. Current allele confirmation status for DPB1 alleles is listed below.

The DPB1 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 DPB1 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix	Alleles	Primer mix
DPB1*32:01, 339:01	42	DPB1*153:01, 321:01	53
DPB1*78:01, 405:01	32	DPB1*237:01, 419:01	85
DPB1*120:01N, 453:01, 521:01	44	DPB1*250:01, 268:01	71

<sup>1</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 DPB1 HOMO- AND HETEROZYGOTES:**

Results file with resolution in DPB1 homo- and heterozygotes is available upon request.

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

In primer mix 3, the 5'-primer has been modified for increased yield.

In primer mixes 12, 69 and 70, a 5'-primer has been modified for improved HLA-specific amplification.

In primer mix 44 a primer pair has been added for the DPB1\*38:01 allele.

In primer mix 59, the 5'- and 3'-primers have been modified for increased yield.