

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

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

**Lot No.: 9D9**

## **Olerup SSP® DPB1**

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

**Lot number:** 9D9

**Expiry date:** 2019-02-01

**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 (1D1):**

<b>Well</b>	<b>5'-primer</b>	<b>3'-primer</b>	<b>rationale</b>
2	Added	-	5'-primer added for increased yield.
5	-	Added	3'-primer added for the DPB1*236:01:02 allele.
9	-	Added	3'-primer added for the DPB1*236:01:02 allele.
33	-	Added	3'-primer added for the DPB1*385:01 allele.
44	Added	-	5'-primer added for the DPB1*437:01 allele.
50	Modified	-	5'-primer modified for increased yield and improved HLA-specific amplification.
51	Added	-	5'-primer added for the DPB1*452:01 allele.
52	Added	-	5'-primer added for the DPB1*452:01 allele.
53	-	Added	3'-primer added for the DPB1*467:01 allele.
59	Exchanged	-	5'-primer exchanged for increased yield and decreased tendency of primer oligomer formation.
66	-	Added	3'-primer added for the DPB1*418:01 allele.
67	-	Moved	3'-primer moved to well 89 for decreased tendency of primer oligomer formation.
70	Added	-	5'-primer added for the DPB1*476:01 allele.
73	-	Added	3'-primer added for the DPB1*489:01 allele.
74	Added	-	5'-primer added for the DPB1*374:01 allele.
78	Added	-	5'-primer added for the DPB1*424:01 allele.
79	Added	-	5'-primer added for the DPB1*476:01 allele.
80	Added	-	5'-primer added for the DPB1*433:01 allele.
84	-	Added	3'-primer added for the DPB1*418:01 allele.
85	Added	Added	Primer pair added for the DPB1*498:01 allele.
86	Added	-	5'-primer added for the DPB1*375:01 allele.
89	-	Added	3'-primer added from well 67.
90	-	Added	3'-primer added for the DPB1*534:01 allele.
91	-	Added	3'-primers added for the DPB1*534:01 and DPB1*535:01 alleles.
92	Added	Added	Primer pair added for the DPB1*445:01 and DPB1*533:01 alleles.
93	Added	-	5'-primer added for the DPB1*404:01 allele.
94	Added	Added	Negative Control moved to well 96, primer pairs added for the DPB1*377:01 and DPB1*514:01 alleles.
95	New	New	New primer pairs added for the DPB1*413:01 and DPB1*441:01 alleles.
96	-	-	Negative Control added from well 94.

101.311-24/04 – including *Taq* polymerase

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

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**THE NUMBER OF WELLS** is increased from 94 to 96 wells.

**ALLELE COVERAGE:**

DPB1\*01:01 to DPB1\*536:01, 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-January-19, release 3.23.0.

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, 81

The DPB1 typing kit cannot distinguish the following silent mutations: DPB1\*01:01:01-01:01:02, 01:01:04 and 01:01:06 alleles, the DPB1\*02:01:02, 02:01:04-02:01:05 and 02:01:07-02:01:18 alleles, the DPB1\*03:01:01-03:01:08 alleles, the DPB1\*04:01:01:01-04:01:01:02, 04:01:03-04:01:06, 04:01:08-04:01:10, 04:01:12-04:01:15 and 04:01:17-04:01:31 alleles, DPB1\*04:01:02 and 04:01:16 alleles, the DPB1\*04:01:07 and 04:01:11 alleles, the DPB1\*04:02:01:01-04:02:01:02 and 04:02:03-04:02:08 alleles, the DPB1\*05:01:01-05:01:02 and 05:01:07 alleles, the DPB1\*05:01:05-05:01:06 alleles, the DPB1\*09:01:02-09:01:04 alleles, the DPB1\*11:01:02-11:01:03 alleles, the DPB1\*41:01:01-41:01:02, the DPB1\*155:01:01-155:01:02 alleles, the DPB1\*236:01:01-236:01:02 alleles, the DPB1\*348:01:01-348:01:02 or the DPB1\*354:01:01-354:01:02 alleles.

<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:**

No comments received.