Olerup SSP® HLA-B*51

Product number:	**101.561-24/03 – including *Taq* pol.** **101.561-24u/03u – without *Taq* pol.**
Lot number:	**7E5**
Expiry date:	**2019-08-01**
Number of tests:	**24 tests – Product No. 101.561-24/24u** **3 tests – Product No. 101.561-03/03u**
Number of wells per test:	**82+1**

CHANGES COMPARED TO THE PREVIOUS HLA-B*51 LOT (0D3):

Well	5'-primer	3'-primer	rationale
3	-	Modified	3'-primer modified for increased yield.
4	-	Modified	3'-primer modified for increased yield.
16	Modified	-	5'-primer modified for improved HLA-specific amplification.
31	Modified	Modified	5'-primer and 3'-primer modified for increased yield.
80	Added	Added	Negative Control moved to well 83, primer pair added for the B*51:148 allele.
81	New	New	New primer pairs added for the B*51:98N and B*51:148 alleles.
82	New	New	New primer pair added for the B*51:193 allele.
83	-	-	Negative Control added from well 80.

THE NUMBER OF WELLS has been increased from 80 to 83.

ALLELE COVERAGE:
B*51:01 to B*51:208, i.e. all the currently recognized HLA-B*51 alleles, will be amplified by the primers in the HLA-B*51 subtyping kit[1,2]; www.ebi.ac.uk/imgt/hla, 2016-July-14, release 3.25.0.

The HLA-B*51 kit enables separation of the confirmed HLA-B*51 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 HLA-B*51 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 HLA-B*51 subtyping kit cannot distinguish following silent mutations: the B*51:01:01:01-51:01:01:02, 51:01:03-51:01:07, 51:01:10-51:01:14, 51:01:16-51:01:20, 51:01:22-51:01:24, 51:01:26-51:01:38, 51:01:41 and 51:01:44-51:01:52 alleles, the B*51:01:08, 51:01:15 and 51:01:43 alleles, the B*51:01:21 and 51:01:25 alleles, the B*51:01:42 and 51:01:53 alleles, the B*51:02:01 and 51:02:03-51:02:05 alleles, the B*51:08:01-51:08:02 alleles, the B*51:09:01 and 51:09:03 alleles, the B*51:13:01-51:13:02 alleles, the B*51:24:01 and 51:24:05 alleles, the B*51:24:02-51:24:04 alleles, the B*51:56:02-51:56:03 alleles, the B*51:61:01-51:61:02 alleles, the B*51:92:01-51:92:02 or the B*51:158:01-51:158:02 alleles.

The following HLA-B*51 alleles can be distinguished by the different sizes of the specific PCR product:

Alleles	Primer mix	Alleles	Primer mix
B*51:26, 51:185	20	B*51:70, 51:71	53
B*51:30, 51:142	25	B*51:74, 51:124	54
B*51:39, 51:126	27	B*51:75, 51:77	55
B*51:51, 51:76	44	B*51:83, 51:88	59
B*51:57, 51:123	46	B*51:84, 51:94	60
B*51:66, 51:67	64	B*51:86, 51:95	62
B*51:68, 51:72	51	B*51:127, 51:149N	73

[1]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.
[2]The B*51:119, 51:176 and 51:179 and the B*52:06:03 alleles will give rise to identical amplification patterns. These alleles can e.g. be distinguished by the HLA-B low resolution kit and/or the HLA-B*52 high resolution kit.

RESOLUTION IN HLA-B*51 HOMO- AND HETEROZYGOTES:
Good.

INFLUENCE ON THE INTERPRETATION OF HLA-B*51 SUBTYPINGS BY NON-HLA-B*51 ALLELES:
None frequently occurring.

MODIFICATIONS MADE DUE TO COMMENTS FROM CUSTOMERS:
No comments received.