

## Olerup SSP<sup>®</sup> HLA-B\*44

Product number:	101.563-24/03 – including <i>Taq</i> pol. 101.563-24u/03u - without <i>Taq</i> pol.
Lot number:	34E
Expiry date:	2010-April-01
Number of tests:	24 tests – Product No. 101.563-24 3 tests – Product No. 101.563-03
Number of wells per test:	48
Storage - pre-aliquoted primers:	dark at -20°C
- PCR Master Mix:	-20°C
- Adhesive PCR seals	RT
- Product Insert	RT

**This Product Description is only valid for Lot No. 34E.**

### CHANGES COMPARED TO THE PREVIOUS OLERUP SSP<sup>®</sup> HLA-B\*44 LOT.

The HLA-B\*44 specificity and interpretation tables have been updated for the HLA-B alleles described since the previous Olerup SSP<sup>®</sup> HLA-B\*44 lot was made (Lot No. X35).

6 wells has been added to the HLA-B\*44 kit,  
wells **43 to 48**.

The primers of the wells detailed below have been exchanged, added or modified compared to the previous lot.

Well	5'-primer	3'-primer	rationale
21	-	-	Changed control primer pair to decrease the tendency to form primer dimer artefacts.
43	New	New	New primer pair for the B*4452N allele.
44	New	New	New primer pair for the B*4453 allele.
45	New	New	New primer pair for the B*4454 allele.
46	New	New	New primer pair for the B*4456N allele.
47	New	New	New primer pair for the B*4458N allele.
48	New	New	New primer pair for the B*4459 allele.

Changes in revision R01 compared to R00:

1. The amplifications pattern for the B\*1553, 400101-4007... alleles has been re-entered in the Interpretation Table.

## PRODUCT DESCRIPTION

### HLA-B\*44 SSP subtyping

#### CONTENT

The primer set contains 5'- and 3'-primers for identifying the B\*4402 to B\*4460 alleles.

#### PLATE LAYOUT

Each test consists of 48 PCR reactions in a 48 well cut PCR plate.

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48

The 48 well cut PCR plate is marked with 'HLA-B\*44'.

Well No. 1 is marked with the Lot No. '34E'.

The PCR plates are covered with a PCR-compatible foil.

**Please note:** When removing each 48 well PCR plate, make sure that the remaining plates stay covered. Use a scalpel or a similar instrument to carefully cut the foil between the plates.

#### INTERPRETATION

The interpretation of HLA-B\*44 SSP subtypings will be influenced many other HLA-B alleles when present on the other haplotype. In addition, the Cw\*070401-070402, 0711, 0712 and 0745 alleles will be amplified by primer mix 39 and the Cw\*1610 allele will be amplified by primer mixes 33, 35 and 44.

#### UNIQUELY IDENTIFIED ALLELES

All the HLA-B\*44 alleles, i.e. **B\*4402 to B\*4460**, recognized by the HLA Nomenclature Committee in April 2008<sup>1</sup> will give rise to unique amplification patterns by the primers in the HLA-B\*44 subtyping kit.

The HLA-B\*44 subtyping kit cannot distinguish the B\*44020101, B\*440202 to B\*440204 alleles, the B\*440301 and B\*440303 alleles or the B\*442801 and B\*442802 alleles.

<sup>1</sup>HLA-B alleles listed on the IMGT/HLA web page 2008-April-08, release 2.21.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

**RESOLUTION IN HOMO- AND HETEROZYGOTES**

The 60 phenotypically different HLA-B\*44 alleles can be combined in 1 830 homozygous and heterozygous combinations. 535 of these genotypes do not give rise to unique amplification patterns. (The differently sized specific PCR fragments generated by primer mixes 6, 7, 8, 9, 10, 18, 19, 20 and 21 were not considered in these calculations.)

+++++--+	--+----+	+-----+	-----++	----+---	-----	4407,4417 = 4417,4438 = 4417,4457
+++++--+	--+----+	+-----+	-----+	-----	-----	4407,4425 = 4425,4438 = 4425,4457
+++++--+	--+----	+-----+	-----+	-----	-----+	4407,4458N = 4438,4458N = 4457,4458N
+++++--+	--+----	+-----+	-----+	-----	-----	4405,4407 = 4405,4438 = 4405,4457
+++++--+	--+----	+-----+	-----+	-----	-----	4405,4447 = 4424,4439
+++++--+	--+----	+-----+	-----+	-----	-----	4405,4446 = 4409,4439
+++++--+	--+----+	+-----+	-----++	----+---	-----	4403,4417 = 4417,4439 = 4417,4460
+++++--+	--+----+	+-----+	-----+	-----	-----	4403,4425 = 4405,4450 = 4425,4439 = 4425,4450 = 4425,4460
+++++--+	--+----	+-----+	-----+	-----	-----	4405,4430 = 4411,4439
+++++--+	--+----	+-----+	-----+	-----	-----	4405,4436 = 4422,4439
+++++--+	--+----	+-----+	-----+	-----	-----	4405,4432 = 4421,4439
+++++--+	--+----	+-----+	-----+	-----	-----+	4403,4458N = 4439,4458N = 4458N,4460
+++++--+	--+----	+-----+	-----+	-----	-----	4402,4439 = 4403,4405 = 4405,4439 = 4405,4460
+++++--+	+-----+	+-----+	-----+	-----	-----	4407,4423N = 4423N,4438 = 4423N,4457
+++++--+	--+----	+-----+	-----+	-----	-----	4407,4424 = 4408,4447 = 4424,4438 = 4424,4457
+++++--+	--+----	+-----+	-----+	-----	-----	4407,4409 = 4409,4438
+++++--+	--+----+	+-----+	-----+	-----	-----	4407,4412 = 4412,4438 = 4412,4457
+++++--+	--+----+	+-----+	-----+	----+---	+-----	4407,4414 = 4414,4438 = 4414,4457
+++++--+	--+----+	+-----+	-----+	----+---	-----	4407,4451 = 4438,4451 = 4451,4457
+++++--+	--+----	+-----+	-----+	-----	-----	4407,4419N = 4419N,4438 = 4419N,4457
+++++--+	--+----	+-----+	-----+	-----	-----	4407,4411 = 4408,4430 = 4411,4438 = 4411,4457
+++++--+	--+----	+-----+	-----+	-----	-----	4407,4422 = 4408,4436 = 4422,4438 = 4422,4457
+++++--+	--+----	+-----+	-----+	+-----+	-----	4407,4416 = 4416,4438 = 4416,4457
+++++--+	--+----	+-----+	-----+	-----	-----	4407,4421 = 4408,4432 = 4421,4438 = 4421,4457
+++++--+	--+----	+-----++	-----+	-----	-----	44020102S,4407 = 44020102S,4438 = 44020102S,4457
+++++--+	--+----	+-----+	+-----+	-----	-----	4407,4427 = 4427,4438 = 4427,4457
+++++--+	--+----	+-----+	+-----+	-----	-----	4407,4433 = 4433,4438 = 4433,4457

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++++---+ --+----- +-----+ ----+--+ ------ ------	4407, 4455 = 4438, 4455 = 4455, 4457
++++---+ --+----- +-----+ ------+ ------+ ------	4407, 4442 = 4438, 4442 = 4442, 4457
++++---+ --+----- +-----+ ------+ ------+ ------	4407, 4448 = 4438, 4448 = 4448, 4457
++++---+ --+----- +-----+ ------+ ------+ +-----	4407, 4449 = 4438, 4449 = 4449, 4457
++++---+ --+----- +-----+ ------+ ------ -+-----	4407, 4452N = 4438, 4452N = 4452N, 4457
++++---+ --+----- +-----+ ------+ ------ -+-----	4407, 4453 = 4438, 4453 = 4453, 4457
++++---+ --+----- +-----+ ------+ ------ ------+	4407, 4459 = 4438, 4459 = 4457, 4459
++++---+ --+----- +-----+ ------+ ------ ------	4402, 4407 = 4402, 4438 = 4402, 4457 = 4403, 4408 = 4408, 4438
++++---+ ---+----- +-----+ ------+ ------ ------	4408, 4446 = 4409, 4457
++++---+ +-+----- +-----+ ------+ ------ ------	4403, 4423N = 4423N, 4460
++++---+ -+++----- +-----+ ------+ ------ ------	4409, 4447 = 4424, 4446
++++---+ -+++----- +-+-----+ ------+ ------ ------	4411, 4447 = 4424, 4430
++++---+ -+++----- +-+-----+ ------+ ------ ------	4422, 4447 = 4424, 4436
++++---+ -+++----- +-+-----+ ------+ ------ ------	4421, 4447 = 4424, 4432
++++---+ -+++----- +-----+ ------+ -+----- ------	4424, 4440 = 4444, 4447
++++---+ -+++----- +-----+ ------+ ------ ------	4402, 4447 = 4403, 4424 = 4424, 4447 = 4424, 4460
++++---+ --+----- +-+-----+ ------+ ------ ------	4409, 4430 = 4411, 4446
++++---+ --+----- +-+-----+ ------+ ------ ------	4409, 4436 = 4422, 4446
++++---+ --+----- +-+-----+ ------+ ------ ------	4409, 4432 = 4421, 4446
++++---+ --+----- +-----+ ------+ ------ ------	4402, 4446 = 4403, 4409
++++---+ --+----- +-----+ ------+ ------ ------	4403, 4412 = 4412, 4460
++++---+ --+----- +-----+ ------+ -+----- -+-----	4403, 4414 = 4414, 4460
++++---+ --+----- +-----+ ------+ -+----- ------	4403, 4451 = 4451, 4460
++++---+ --+----- +-+-----+ ------+ ------ ------	4403, 4419N = 4419N, 4460
++++---+ --+----- +-+-----+ ------+ ------ ------	4411, 4436 = 4422, 4430
++++---+ --+----- +-+-----+ ------+ ------ ------	4411, 4432 = 4421, 4430
++++---+ --+----- +-+-----+ ------+ -+----- ------	4411, 4440 = 4430, 4444
++++---+ --+----- +-+-----+ ------+ ------ ------	4402, 4430 = 4403, 4411 = 4411, 4430 = 4411, 4460
++++---+ --+----- +-+-----+ ------+ ------ ------	4421, 4436 = 4422, 4432
++++---+ --+----- +-+-----+ ------+ -+----- ------	4422, 4440 = 4436, 4444
++++---+ --+----- +-+-----+ ------+ ------ ------	4402, 4436 = 4403, 4422 = 4422, 4436 = 4422, 4460
++++---+ --+----- +-----+ ------+ +-----+ ------	4403, 4416 = 4416, 4432 = 4416, 4460
++++---+ --+----- +-----+ ------+ -+----- ------	4421, 4440 = 4432, 4444
++++---+ --+----- +-----+ ------+ ------ ------	4402, 4432 = 4403, 4421 = 4421, 4432 = 4421, 4460
++++---+ --+----- +-----+ ------+ ------ ------	44020102S, 4403 = 44020102S, 4460
++++---+ --+----- +-----+ +-----+ ------ ------	4403, 4427 = 4427, 4460
++++---+ --+----- +-----+ -+-----+ ------ ------	4403, 4433 = 4433, 4460
++++---+ --+----- +-----+ ------+ ------ ------	4403, 4455 = 4455, 4460
++++---+ --+----- +-----+ ------+ -+----- ------	4402, 4440 = 4403, 4444
++++---+ --+----- +-----+ ------+ ------+ ------	4403, 4442 = 4442, 4460
++++---+ --+----- +-----+ ------+ ------+ ------	4403, 4448 = 4448, 4460
++++---+ --+----- +-----+ ------+ ------ +-----	4403, 4449 = 4449, 4460
++++---+ --+----- +-----+ ------+ ------ -+-----	4403, 4452N = 4452N, 4460
++++---+ --+----- +-----+ ------+ ------ -+-----	4403, 4453 = 4453, 4460

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++++-----	--+-----	+-----+-	-----+	-----	-----+	4403,4459 = 4459,4460
++++-----	--+-----	+-----+-	-----+	-----	-----	4402,4403 = 4402,4460
++++-----	--+-----	+-----+-	-----+	-----	-----	4409,4440 = 4444,4446
++++-----	--+-----	+-----+-	-----+	-----	-----	4409,4446 = 4409,4460
++++++	--+-----	+-----+-	-----+	-----	-----	4406,4417 = 4417,4429
++++++	--+-----	+-----+-	-----+	-----	-----	4406,4425 = 4425,4429
++++++	--+-----	+-----+-	-----+	-----	-----	4406,4458N = 4429,4458N
++++++	--+-----	+-----+-	-----+	-----	-----	4405,4406 = 4405,4429
++++--	+++-----	+-----+-	-----+	-----	-----	4402,4418 = 4418,4423N = 4418,4424 = 4418,4448
++++--	+++-----	+-----+-	-----+	-----	-----	4405,4418 = 4418,4425
++++--	+++-----	+-----+-	-----+	-----	-----	4402,4415 = 4415,4423N = 4415,4424 = 4415,4448 = 4415,4455
++++--	+++-----	+-----+-	-----+	-----	-----	4402,4410 = 4410,4423N = 4410,4448
++++--	+++-----	+-----+-	-----+	-----	-----	4417,4420 = 4417,4424
++++--	+++-----	+-----+-	-----+	-----	-----	4420,4425 = 4424,4425
++++--	+++-----	+-----+-	-----+	-----	-----	4420,4458N = 4424,4458N
++++--	+++-----	+-----+-	-----+	-----	-----	4405,4420 = 4405,4424
++++--	+++-----	+-----+-	-----+	-----	-----	4414,4417 = 4414,4443
++++--	+++-----	+-----+-	-----+	-----	-----	4405,4417 = 4417,4417 = 4417,4443 = 4417,4445 = 4417,4451 = 4443,4451
++++--	+++-----	+-----+-	-----+	-----	-----	4405,4425 = 4425,4425
++++--	+++-----	+-----+-	-----+	-----	-----	4402,4431 = 4419N,4431
++++--	+++-----	+-----+-	-----+	-----	-----	4405,4458N = 4458N,4458N
++++--	+++-----	+-----+-	-----+	-----	-----	4406,4423N = 4423N,4429
++++--	+++-----	+-----+-	-----+	-----	-----	4406,4420 = 4406,4424 = 4424,4429
++++--	+++-----	+-----+-	-----+	-----	-----	4406,4412 = 4412,4429
++++--	+++-----	+-----+-	-----+	-----	-----	4406,4414 = 4414,4429
++++--	+++-----	+-----+-	-----+	-----	-----	4406,4451 = 4429,4451
++++--	+++-----	+-----+-	-----+	-----	-----	4406,4419N = 4419N,4429
++++--	+++-----	+-----+-	-----+	-----	-----	4406,4411 = 4411,4429
++++--	+++-----	+-----+-	-----+	-----	-----	4406,4422 = 4422,4429
++++--	+++-----	+-----+-	-----+	-----	-----	4406,4416 = 4416,4429
++++--	+++-----	+-----+-	-----+	-----	-----	4406,4421 = 4421,4429
++++--	+++-----	+-----+-	-----+	-----	-----	44020102S,4406 = 44020102S,4429
++++--	+++-----	+-----+-	-----+	-----	-----	4406,4427 = 4427,4429
++++--	+++-----	+-----+-	-----+	-----	-----	4406,4433 = 4429,4433
++++--	+++-----	+-----+-	-----+	-----	-----	4406,4455 = 4429,4455
++++--	+++-----	+-----+-	-----+	-----	-----	4406,4442 = 4429,4442
++++--	+++-----	+-----+-	-----+	-----	-----	4406,4448 = 4429,4448
++++--	+++-----	+-----+-	-----+	-----	-----	4406,4449 = 4429,4449
++++--	+++-----	+-----+-	-----+	-----	-----	4406,4452N = 4429,4452N
++++--	+++-----	+-----+-	-----+	-----	-----	4406,4453 = 4429,4453
++++--	+++-----	+-----+-	-----+	-----	-----	4406,4459 = 4429,4459
++++--	+++-----	+-----+-	-----+	-----	-----	4402,4406 = 4402,4429 = 4406,4429
++++--	+++-----	+-----+-	-----+	-----	-----	4408,4420 = 4408,4424
++++--	+++-----	+-----+-	-----+	-----	-----	4420,4423N = 4423N,4424
++++--	+++-----	+-----+-	-----+	-----	-----	4402,4423N = 4423N,4423N
++++--	+++-----	+-----+-	-----+	-----	-----	4409,4420 = 4409,4424
++++--	+++-----	+-----+-	-----+	-----	-----	4412,4420 = 4412,4424
++++--	+++-----	+-----+-	-----+	-----	-----	4414,4420 = 4414,4424
++++--	+++-----	+-----+-	-----+	-----	-----	4420,4451 = 4424,4451
++++--	+++-----	+-----+-	-----+	-----	-----	4419N,4420 = 4419N,4424

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101.563-24u/03u – without Taq polymerase

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+++-----	-++-----	+--+-----	-----+	-----	-----	4411, 4420 = 4411, 4424
+++-----	-++-----	+--+-----	-----+	-----	-----	4420, 4422 = 4422, 4424
+++-----	-++-----	+--+-----	-----+	-----	-----	4420, 4421 = 4421, 4424
+++-----	-++-----	+-----++	-----+	-----	-----	44020102S, 4420 = 44020102S, 4424
+++-----	-++-----	+-----+	+-----+	-----	-----	4420, 4427 = 4424, 4427
+++-----	-++-----	+-----+	-+-----+	-----	-----	4420, 4433 = 4424, 4433
+++-----	-++-----	+-----+	-+-----+	-----	-----	4420, 4434 = 4424, 4434
+++-----	-++-----	+-----+	-----+	-----	-----	4420, 4455 = 4424, 4455
+++-----	-++-----	+-----+	-----+	-----	-----	4420, 4444 = 4424, 4444
+++-----	-++-----	+-----+	-----+	-----	-----	4420, 4448 = 4424, 4448
+++-----	-++-----	+-----+	-----+	-----	-----	4420, 4449 = 4424, 4449
+++-----	-++-----	+-----+	-----+	-----	-----	4420, 4452N = 4424, 4452N
+++-----	-++-----	+-----+	-----+	-----	-----	4420, 4453 = 4424, 4453
+++-----	-++-----	+-----+	-----+	-----	-----	4420, 4459 = 4424, 4459
+++-----	-++-----	+-----+	-----+	-----	-----	4402, 4420 = 4402, 4424 = 4420, 4424 = 4424, 4424
+++-----	-++-----	+-----+	-----+	-----	-----	4402, 4412 = 4412, 4412
+++-----	-++-----	+-----+	-----+	-----	-----	4414, 4414 = 4414, 4445 = 4414, 4451
+++-----	-++-----	+-----+	-----+	-----	-----	4445, 4451 = 4451, 4451
+++-----	-++-----	+-----+	-----+	-----	-----	4402, 4419N = 4419N, 4419N
+++-----	-++-----	+-----+	-----+	-----	-----	4402, 4411 = 4411, 4411
+++-----	-++-----	+-----+	-----+	-----	-----	4402, 4422 = 4422, 4422
+++-----	-++-----	+-----+	-----+	-----	-----	4402, 4416 = 4416, 4421
+++-----	-++-----	+-----+	-----+	-----	-----	4402, 4421 = 4421, 4421
+++-----	-++-----	+-----++	-----+	-----	-----	4402, 44020102S = 44020102S, 44020102S
+++-----	-++-----	+-----+	-+-----+	-----	-----	4402, 4433 = 4433, 4433
+++-----	-++-----	+-----+	-----+	-----	-----	4402, 4455 = 4455, 4455
+++-----	-++-----	+-----+	-----+	-----	-----	4402, 4448 = 4448, 4448
+++-----	-++-----	+-----+	-----+	-----	-----	4402, 4449 = 4449, 4449
+++-----	-++-----	+-----+	-----+	-----	-----	4402, 4452N = 4452N, 4452N
+++-----	-++-----	+-----+	-----+	-----	-----	4402, 4453 = 4453, 4453
+++-----	-++-----	+-----+	-----+	-----	-----	4402, 4459 = 4459, 4459
+++-----	-++-----	+-----+	-----+	-----	-----	4407, 4456N = 4438, 4456N = 4456N, 4457
+++-----	-++-----	+-----+	-----+	-----	-----	4404, 4407 = 4404, 4438 = 4404, 4457
+++-----	-++-----	+-----+	-----+	-----	-----	4407, 4428 = 4428, 4438 = 4428, 4457
+++-----	-++-----	+-----+	-----+	-----	-----	4403, 4456N = 4456N, 4460
+++-----	-++-----	+-----+	-----+	-----	-----	4403, 4404 = 4404, 4460
+++-----	-++-----	+-----+	-----+	-----	-----	4403, 4428 = 4428, 4460
+++-----	-++-----	+-----+	-----+	-----	-----	4407, 4418 = 4418, 4438 = 4418, 4457
+++-----	-++-----	+-----+	-----+	-----	-----	4407, 4415 = 4415, 4438 = 4415, 4457
+++-----	-++-----	+-----+	-----+	-----	-----	4407, 4410 = 4410, 4438 = 4410, 4457
+++-----	-++-----	+-----+	-----+	-----	-----	4407, 4431 = 4431, 4438 = 4431, 4457
+++-----	-++-----	+-----+	-----+	-----	-----	4407, 4443 = 4438, 4443 = 4443, 4457
+++-----	-++-----	+-----+	-----+	-----	-----	4403, 4418 = 4418, 4439 = 4418, 4450 = 4418, 4460
+++-----	-++-----	+-----+	-----+	-----	-----	4403, 4415 = 4415, 4439 = 4415, 4460



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+++++--	+-----	+-----+	-----+	-----+	-----	4403, 4410 = 4410, 4439 = 4410, 4460
+++++--	--+-----	+-----+	+-----	-----+	-----	4403, 4431 = 4431, 4439 = 4431, 4460
+++++--	--+-----	+-----+	-----+	-----+	-----	4403, 4443 = 4439, 4443 = 4443, 4460
+++++--	--+-----	+-----+	-----	-----	-----	4407, 4429 = 4429, 4438 = 4429, 4457
+++++--	--+-----	+-----+	-----	-----	-----	4403, 4429 = 4429, 4460
+++++--	--+-----	+-----+	-----+	-----	-----	4407, 4420 = 4420, 4438 = 4420, 4457
+++++--	--+-----	+-----+	-----	-----	-----	4407, 4447 = 4438, 4447 = 4447, 4457
+++++--	--+-----	+-----+	-----	-----	-----	4407, 4446 = 4438, 4446
+++++--	--+-----	+-----+	-----	-----	-----	4407, 4413 = 4413, 4438 = 4413, 4457
+++++--	--+-----	+-----+	-----	-----	-----	4407, 4450 = 4438, 4450 = 4450, 4457
+++++--	--+-----	+-----+	-----	-----	-----	4407, 4430 = 4430, 4438 = 4430, 4457
+++++--	--+-----	+-----+	-----	-----	-----	4407, 4436 = 4436, 4438 = 4436, 4457
+++++--	--+-----	+-----+	-----	-----	-----	4407, 4432 = 4432, 4438 = 4432, 4457
+++++--	--+-----	+-----+	-----	-----	-----	4407, 4426 = 4426, 4438 = 4426, 4457
+++++--	--+-----	+-----+	-----+	-----	-----	4407, 4435 = 4435, 4438 = 4435, 4457
+++++--	--+-----	+-----+	-----+	-----+	-----	4407, 4441 = 4438, 4441 = 4441, 4457
+++++--	--+-----	+-----+	-----	+-----	-----	4407, 4437 = 4437, 4438 = 4437, 4457
+++++--	--+-----	+-----+	-----	-----+	-----	4407, 4445 = 4438, 4445 = 4445, 4457
+++++--	--+-----	+-----+	-----	-----	-----+	4407, 4454 = 4438, 4454 = 4454, 4457
+++++--	--+-----	+-----+	-----	-----	-----	4403, 4407 = 4403, 4438 = 4403, 4457 = 4407, 4438 = 4438, 4438 = 4438, 4457 = 4438, 4460
+++++--	--+-----	+-----+	-----+	-----	-----	4403, 4420 = 4420, 4460
+++++--	--+-----	+-----+	-----	-----	-----	4403, 4447 = 4447, 4460
+++++--	--+-----	+-----+	-----	-----	-----	4403, 4413 = 4413, 4413 = 4413, 4460
+++++--	--+-----	+-----+	-----	-----	-----	4403, 4450 = 4450, 4450 = 4450, 4460
+++++--	--+-----	+-----+	-----	-----	-----	4403, 4430 = 4430, 4430 = 4430, 4460
+++++--	--+-----	+-----+	-----	-----	-----	4403, 4436 = 4436, 4436 = 4436, 4460
+++++--	--+-----	+-----+	-----	-----	-----	4403, 4432 = 4432, 4432 = 4432, 4460
+++++--	--+-----	+-----+	-----	-----	-----	4403, 4426 = 4426, 4426 = 4426, 4460
+++++--	--+-----	+-----+	-----+	-----	-----	4403, 4435 = 4435, 4460
+++++--	--+-----	+-----+	-----+	-----+	-----	4403, 4441 = 4441, 4460
+++++--	--+-----	+-----+	-----	+-----	-----	4403, 4437 = 4437, 4460
+++++--	--+-----	+-----+	-----	-----+	-----	4403, 4445 = 4445, 4460
+++++--	--+-----	+-----+	-----	-----	-----+	4403, 4454 = 4454, 4460

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+++-----	--+-----	+-----+-	-----	-----	-----	4403,4403 = 4403,4460
+++-----	--+-----	+-----+-	-----	-----	-----	4446,4446 = 4446,4460
+++-----	--+-----	+-----+-	-----	--+-----	-----+--	4404,4456N = 4428,4456N = 4456N,4456N
+++-----	--+-----	+-----+-	-----	--+-----	-----	4404,4404 = 4404,4428
+++-----	+++-----+	-----+	-----++	-++-----	-----	4410,4418 = 4418,4445
+++-----	+++-----	-----+	-----++	-++-----	-----	4410,4415 = 4415,4445
+++-----	+++-----	-----+	-----++	-++-----	-----	4410,4410 = 4410,4445
+++-----	--+-----	-----+	-----+-	-----+--	-----	4443,4443 = 4443,4445
+++-----	--+-----	+-----+	--+-----	-----	-----	4407,4434 = 4434,4457
+++-----	-----	+-----+	-----+	-----+	-----	4408,4440 = 4444,4457
+++-----	-----	+-----+	-----+	-----+	-----	4408,4457 = 4408,4460
+++-----	-----	+-----+	-----+	-----+	-----	4440,4444 = 4444,4460
+++-----	--+-----	+-----+	-----	-----	-----	4407,4439 = 4439,4457
+++-----	--+-----	+-----+	-----	-----	-----	4439,4439 = 4439,4460
+++-----	--+-----	+-----+	-----	-----	-----	4407,4407 = 4407,4457 = 4407,4460
+++-----	-----	+-----+	-----	-----	-----	4457,4457 = 4457,4460
+++-----	-----	+-----+	-----	-----	-----	4440,4440 = 4440,4460
-++-----	--+-----	-----+-	-----+	+-----+	-----	4416,4416 = 4416,4442



## SPECIFICITY TABLE

### HLA-B\*44 SSP subtyping

Specificities and sizes of the PCR products of the 48 primer mixes used for HLA-B\*44 SSP subtyping

Primer Mix	Size of spec. PCR product <sup>1</sup>	Size of control band <sup>2</sup>	Amplified HLA-B*44 alleles <sup>3</sup>	Other amplified HLA Class I alleles <sup>4</sup>
<b>1</b>	260 bp	<b>800 bp</b>	44020101-4414, 4417, 4419N, 4421-4430, 4432-4436, 4438-4440, 4443-4446, 4448-4453, 4455-4460	3545, 3571, 5142, 5707, 8301
<b>2<sup>5,6</sup></b>	90 bp	<b>800 bp</b>	44020101-4405, 4409-4433, 4435-4438, 4441-4443, 4445-4456N, 4458N, 4459	1553, 3563, 400101-4009, 4011, 4013-4016, 4018-4020, 4022N-4040, 4042-4045, 4047-4057, 4059-4082, 4084-4088, 4101-4108, 4501-4508, 47010101-4705, 4901, 4902, 4904, 4905, 5001, 5002, 5004
<b>3</b>	225 bp	<b>800 bp</b>	44020101-440204, 4405, 4406, 4408, 4409, 4411, 4412, 4414, 4416, 4417, 4419N, 4421-4425, 4427, 4433, 4434, 4442, 4444, 4448, 4449, 4451-4453, 4455, 4458N, 4459	3538, 370101-370104, 3703N-3706, 3708, 3710-3713, 5709, 8301
<b>4</b>	160 bp	1070 bp	440301-440303, 4407, 4413, 4426, 4430, 4432, 4436-4440, 4446, 4447, 4450,	5142

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			4454, 4457, 4460	
<b>5<sup>6</sup></b>	75 bp	1070 bp	4404, 442801- 442802, 4456N	0720, 3545
<b>6<sup>8</sup></b>	170, 195 bp	1070 bp	4405, 4410, 4415, 4417, 4418, 4425, 4431, 4439, 4443, 4458N	0720, 1514, 1591, 9531, 3545, 3571, 4501, 4502, 4505-4507, 5002, 5123, 5707, 5807, 8201, 8202
<b>7<sup>6,9</sup></b>	145, 165 bp	1070 bp	4406, 4429	3806, 3807, 4903, 510101- 512402, 5126-5146, 5148, 5149, 5151-5153, 5155, 520101-520104, 5203-5212, 530101-5302, 5304-5308, 5310, 5314-5316, 580101- 5802, 5804-5816
<b>8<sup>5,6,10</sup></b>	90, 115 bp	1070 bp	4407, 4408, 4438, 4457	4083, 4610
<b>9<sup>6,11</sup></b>	120, 195 bp	1070 bp	4410, 4415, 4418, 4423N	4501, 4505-4507, 5002, 8201, 8202
<b>10<sup>7,12</sup></b>	255, 345 bp	<b>800 bp</b>	4415, 4418, 4420, 4424, 4447	4501-4503, 4505-4507, 5002, 5123, 5139
<b>11</b>	150 bp	<b>800 bp</b>	44020101-4405, 4407, 4410- 4439, 4441- 4443, 4445, 4447-4456N, 4458N, 4459	3706, 4013, 4019, 4047, 47010101-47010102, 4703- 4705, 4901, 4902, 4904, 4905
<b>12<sup>6</sup></b>	145 bp	1070 bp	4409, 4446	1546, 1553, 9506, 9543, 3519, 3547, 3563, 400101- 4011, 401401-4016, 4018, 4020, 4022N-4040, 4042- 4045, 4048-4075, 4077- 4088, 4101-4104, 4106- 4108, 4501-4508, 4702, 5001, 5002, 5004
<b>13<sup>6</sup></b>	90 bp	1070 bp	4413	
<b>14<sup>6,7</sup></b>	95 bp	<b>800 bp</b>	4412	9543, 3519, 3547, 4008, 4025, 4068
<b>15</b>	170 bp	1070 bp	4414, 4417, 4451	0704, 0719, 0725, 080101- 0805, 0807-0812, 0815- 0819N, 0821-0824, 0826, 0827, 0829-0836, 1551, 1583, 3538, 3587, 3709, 3712, 4101-4108, 4201, 4202, 4204-4209, 5108, 5120, 5136, 5144N, 5520,

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<b>16<sup>6</sup></b>	145 bp	<b>800 bp</b>	4418, 4425, 4450	5613, 5709, 8201, 8202 4013, 4019, 4901, 4904, 4905
<b>17</b>	195 bp	1070 bp	44020101-4404, 4406-4409, 4411-4413, 4419N-4424, 4426-4430, 4432-4436, 4438-4441, 4444, 4446- 4450, 4452N- 4457, 4459, 4460	5142, 8301
<b>18<sup>6,13</sup></b>	115, 270 bp	1070 bp	4419N, 4431	
<b>19<sup>14</sup></b>	150, 190 bp	1070 bp	4411, 4430	
<b>20<sup>6,15</sup></b>	130, 220 bp	1070 bp	4422, 4436	
<b>21<sup>6,7,16</sup></b>	100, 175 bp	<b>800 bp</b>	4416, 4421, 4432	0728
<b>22<sup>7</sup></b>	290 bp	<b>800 bp</b>	4426	
<b>23<sup>6,19</sup></b>	145 bp	<b>800 bp</b>	44020101-4405, 4406 <sup>?</sup> , 4407- 4409, 4410- 4412 <sup>?</sup> , 4413, 4414 <sup>?</sup> , 4415 <sup>?</sup> , 4416, 4417 <sup>?</sup> , 4418 <sup>?</sup> , 4419N, 4420 <sup>?</sup> , 4421, 4422 <sup>?</sup> , 4423N, 4424-4426 <sup>?</sup> , 442801-4430 <sup>?</sup> , 4432-4438 <sup>?</sup> , 4439, 4440- 4445 <sup>?</sup> , 4446, 4447 <sup>?</sup> , 4448 <sup>?</sup> , 4449, 4450 <sup>?</sup> , 4451-4453, 4454 <sup>?</sup> , 4455 <sup>?</sup> , 4456N, 4457, 4458N <sup>?</sup> , 4459, 4460 <sup>?</sup>	5142
<b>24<sup>6</sup></b>	135 bp	1070 bp	44020102S	
<b>25<sup>6,17</sup></b>	145 bp	1070 bp	4406 <sup>?</sup> , 4410- 4412 <sup>?</sup> , 4414 <sup>?</sup> , 4415 <sup>?</sup> , 4417 <sup>?</sup> , 4418 <sup>?</sup> , 4420 <sup>?</sup> ,	070201-0764, 080101-0836, 1301-1304, 1306-1321, 1401-1408 <sup>faintly</sup> , 15010101- 150104, 150106-1519,

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			4422 <sup>?</sup> , 4424- 4426 <sup>?</sup> , 4427, 442801-4430 <sup>?</sup> , 4431, 4432- 4438 <sup>?</sup> , 4440- 4445 <sup>?</sup> , 4447 <sup>?</sup> , 4448 <sup>?</sup> , 4450 <sup>?</sup> , 4454 <sup>?</sup> , 4455 <sup>?</sup> , 4458N <sup>?</sup> , 4460 <sup>?</sup>	1520 <sup>faintly</sup> , 1521, 1523-1540, 1542-1558, 1560-1599, 9501, 9503-9529, 9531- 9546, 180101-1815, 1817N- 1829, 2701-270402, 270502- 2721, 2723-2742, 350101- 3530 <sup>faintly</sup> , 3531, 3532- 3542 <sup>faintly</sup> , 3543, 3544 <sup>faintly</sup> , 3545 <sup>faintly</sup> , 3546, 3547-3556 <sup>faintly</sup> , 3557, 3558 <sup>faintly</sup> , 3559 <sup>faintly</sup> , 3560, 3561-3572 <sup>faintly</sup> , 3574-3578 <sup>faintly</sup> , 3579, 3580- 3586 <sup>faintly</sup> , 3587, 3588 <sup>faintly</sup> , 370101-3713, 380101- 3817 <sup>faintly</sup> , 39010101- 39010102L <sup>faintly</sup> , 390103- 3920 <sup>faintly</sup> , 3922-3942 <sup>faintly</sup> , 3943, 400101-4016, 4018- 4040, 4042-4088, 4101- 4108, 4201, 4202, 4204- 4209, 4501-4506, 4507 <sup>faintly</sup> , 4508, 460101-4614, 47010101-4705, 480101- 480102, 4802 <sup>faintly</sup> , 480301- 4819, 4901-4905, 5001, 5002, 5004, 510101- 512402 <sup>faintly</sup> , 5126-5129 <sup>faintly</sup> , 5130, 5131-5141N <sup>faintly</sup> , 5143-5146 <sup>faintly</sup> , 5148-5150 <sup>faintly</sup> , 5152-5155 <sup>faintly</sup> , 520101-5212 <sup>faintly</sup> , 530101- 5316 <sup>faintly</sup> , 5401-5413, 550101-550102, 550104- 5505, 5507-5530, 5601- 5604, 560501-560502 <sup>faintly</sup> , 5606-5620, 5621 <sup>faintly</sup> , 5622, 5623, 570101-5716, 580101-5802 <sup>faintly</sup> , 5804- 5810N <sup>faintly</sup> , 5811, 5812- 5817N <sup>faintly</sup> , 5901, 5902, 670101-6702 <sup>faintly</sup> , 7801- 7805 <sup>faintly</sup> , 8101, 8102, 8103 <sup>faintly</sup> , 8104N, 8201, 8202, 8301
<b>26<sup>6</sup></b>	135 bp	<b>800 bp</b>	4433	
<b>27</b>	160 bp	<b>800 bp</b>	4434	4058, 4903, 520102, 520104-5203, 520601- 520602, 5209

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<b>28</b>	165 bp	1070 bp	4435	
<b>29<sup>6,18</sup></b>	255 bp	<b>800 bp</b>	4415, 4455	1809, 2701, 3710, 4047, 4902
<b>30</b>	195 bp	<b>800 bp</b>	4410, 4415, 4418	4501, 4505-4507, 5002, 8201, 8202
<b>31</b>	195 bp	1070 bp	4417, 4443	1514, 1591, 9531, 3545, 3571, 5807
<b>32</b>	155 bp	1070 bp	44020101-440204, 4405, 4406, 4408, 4409, 4411, 4412, 4414-4425, 4427, 4433, 4434, 4441, 4442, 4444, 4448, 4449, 4451-4453, 4455, 4458N, 4459	0704, 0719, 0725, 080101-0805, 0807-0812, 0814-0819N, 0821-0824, 0826-0836, 1551, 1583, 3538, 3587, 370101-370104, 3703N-3706, 3708-3713, 4101-4108, 4201, 4202, 4204-4209, 4501-4508, 5108, 5120, 5136, 5144N, 5520, 5613, 5709, 8201, 8202, 8301
<b>33</b>	195 bp	1070 bp	4416, 4437	0728, 1577, 5704, <b>Cw*1610</b>
<b>34</b>	160 bp	<b>800 bp</b>	4415, 4418	4501, 4504-4508, 5613, 8201, 8202
<b>35</b>	180 bp	<b>800 bp</b>	4404, 4456N	<b>Cw*1610</b>
<b>36<sup>6</sup></b>	145 bp	<b>800 bp</b>	4440, 4444	0802, 9515, 2701, 380201-3804, 3808, 3815, 5607
<b>37</b>	205 bp	1070 bp	4410, 4414, 4417, 4431, 4443, 4445, 4451	0720, 1514, 1591, 9531, 3545, 3571, 5123, 5707, 5807, 8201, 8202
<b>38</b>	225 bp	<b>800 bp</b>	4441	0704, 0719, 0725, 080101-0805, 0807, 0808N, 0810-0812, 0814-0819N, 0821-0824, 0826, 0828-0836, 1551, 3587, 3709, 4102-4104, 4108, 4201, 4202, 420501-4209, 8201, 8202
<b>39<sup>6</sup></b>	75 bp	<b>800 bp</b>	4416, 4442	0704, 0719, 0725, 080101-0805, 0807-0812, 0814-0819N, 0821-0824, 0826-0836, 1551, 1583, 3538, 3587, 370101-370104, 3703N-3706, 3708-3713, 4101-4108, 4201, 4202, 4204-4209, 4504, 4508, 5108, 5120, 5136, 5144N, 5520, 5613, 5709

				<b>Cw*070401, Cw*070402, Cw*0711, Cw*0712, Cw*0745</b>
<b>40</b>	235 bp	1070 bp	4410, 4415, 4418, 4448	3545, 3571, 4501-4503, 4505-4507, 5002, 5807, 8201, 8202
<b>41</b>	255 bp	1070 bp	4449	0802
<b>42</b>	165 bp	1070 bp	4414	080101-0805, 0808N-0812, 0815-0819N, 0821-0824, 0826, 0827, 0829-0836, 1583, 3587, 3712, 4101- 410302, 4105-4108, 4201, 4202, 4204-4208, 5108, 5120, 5136, 5144N, 5520, 5613, 5709, 8201, 8202
<b>43<sup>7</sup></b>	110 bp	<b>800 bp</b>	4452N	
<b>44<sup>7</sup></b>	85 bp	<b>800 bp</b>	4453	0728, <b>Cw*1610</b>
<b>45</b>	250 bp	<b>800 bp</b>	4454	0720
<b>46</b>	445 bp	<b>800 bp</b>	4456N	
<b>47</b>	195 bp	1070 bp	4458N	
<b>48<sup>5</sup></b>	75 bp	1070 bp	4459	

<sup>1</sup>Alleles are assigned by the presence of specific PCR product(s). However, the sizes of the specific PCR products may be helpful in the interpretation of HLA-B\*44 SSP typings.

When the primers in a primer mix can give rise to specific PCR products of more than one length this is indicated if the size difference is 20 base pairs or more. Size differences shorter than 20 base pairs are not given. For high resolution SSP kits the respective length of the specific PCR product(s) of the alleles amplified by these primer mixes are given.

Nonspecific amplifications, i.e. a ladder or a smear of bands, may sometimes be seen. GC-rich primers have a higher tendency of giving rise to nonspecific amplifications than other primers.

PCR fragments longer than the control bands may sometimes be observed. Such bands should be disregarded and do not influence the interpretation of the SSP typings.

PCR fragments migrating faster than the control bands, but slower than a 400 bp fragment may be seen in some gel read-outs. Such bands can be disregarded and do not influence the interpretation of the SSP typings.

Some primers may give rise to primer oligomer artifacts. Sometimes this phenomenon is an inherent feature of the primer pair(s) of a primer mix. More often it is due to other factors such as too low amount of DNA in the PCR reactions, taking too long time in setting up the PCR reactions, working at elevated room temperature or using thermal cyclers that are not pre-heated.

<sup>2</sup>The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells.

Wells number 1, 2, 3, 10, 11, 14, 16, 21, 22, 23, 26, 27, 29, 30, 34, 35, 36, 38, 39, 43, 44, 45 and 46 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-B\*44 subtyping and in order to allow kit identification.

In the presence of a specific amplification the intensity of the control band often decreases.

<sup>3</sup>For several HLA-B alleles 1<sup>st</sup> exon and 4<sup>th</sup> exon nucleotide sequences are not available. In these instances it is not known whether some of the primers of the SSP sets are completely matched with the target sequences or not. We assume that unknown sequences in the 1<sup>st</sup> exon and 4<sup>th</sup> exon are conserved within allelic groups.

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<sup>4</sup>Due to the sharing of sequence motifs between HLA-B alleles non-HLA-B\*44 alleles will be amplified by primer mixes 1 to 12, 14 to 17, 21, 23, 25 to 34, 36 to 42, 44 and 45. In addition, the Cw\*070401-070402, 0711, 0712 and 0745 alleles will be amplified by primer mix 39 and the Cw\*16 allele will be amplified by primer mixes 33, 35 and 44.

<sup>5</sup>Primer mixes 2, 8 and 48 have a tendency of giving rise to nonspecific amplifications.

<sup>6</sup>Short specific PCR fragments are less intense and not as sharp as longer specific bands.

<sup>7</sup>Primer mixes 10, 14, 21 and 22 have a tendency of giving rise to primer oligomer artifacts.

<sup>8</sup>Primer mix 6: Specific PCR fragment of 170 bp in the B\*4439 allele. Specific PCR fragment of 195 bp in the B\*4405, B\*4410, B\*4415, B\*4417, B\*4418, B\*4425, B\*4431, B\*4443, B\*4458N and B\*0720, B\*1514, B\*1591, B\*9531, B\*3545, B\*3571, B\*4501-4502, B\*4505-4507, B\*5002, B\*5123, B\*5707, B\*5807 and B\*8201-8202 alleles.

<sup>9</sup>Primer mix 7: Specific PCR fragment of 145 bp in the B\*4406 and B\*3806-3807, B\*4903, B\*510101-5124, B\*5126-5146, B\*5148, B\*5149, B\*5151-5153, B\*5155, B\*520101-520104, B\*5203-5212, B\*530101-5302, B\*5304-5308, B\*5310, B\*5314-5316, B\*580101-5802 and B\*5804-5816 alleles. Specific PCR fragment of 165 bp in the B\*4429 allele.

<sup>10</sup>Primer mix 8: Specific PCR fragment of 90 bp in the B\*4407, B\*4408, B\*4457 and B\*4083 and B\*4610 allele. Specific PCR fragment of 115 bp in the B\*4438 allele.

<sup>11</sup>Primer mix 9: Specific PCR fragment of 120 bp in the B\*4423N allele. Specific PCR fragment of 195 bp in the B\*4410, B\*4415, B\*4418 and B\*4501, B\*4505-4507, B\*5002 and B\*8201-8202 alleles.

<sup>12</sup>Primer mix 10: Specific PCR fragment of 255 bp in the B\*4415, B\*4418, B\*4420, B\*4447 and B\*4501-4503, B\*4505-4507, B\*5002 and B\*5123 alleles. Specific PCR fragment of 345 bp in the B\*4424 and B\*5139 alleles.

<sup>13</sup>Primer mix 18: Specific PCR fragment of 115 bp in the B\*4431 allele. Specific PCR fragment of 270 bp in the B\*4419N allele.

<sup>14</sup>Primer mix 19: Specific PCR fragment of 150 bp in the B\*4411 allele. Specific PCR fragment of 190 bp in the B\*4430 allele.

<sup>15</sup>Primer mix 20: Specific PCR fragment of 130 bp in the B\*4422 allele. Specific PCR fragment of 220 bp in the B\*4436 allele.

<sup>16</sup>Primer mix 21: Specific PCR fragment of 100 bp in the B\*4432 allele. Specific PCR fragment of 175 bp in B\*4416, B\*4421 and B\*0728 alleles.

<sup>17</sup>We assume that the fourth exon nucleotide sequences of are conserved within allelic groups. Primer mix 25 amplifies the B\*4427 and B\*4431 alleles. The purpose of primer mixes 23 and 25 is to e.g. distinguish the B\*4402,4402 and B\*4402,4427 genotypes.

<sup>18</sup>Primer mix 39 may give rise to less specific PCR product than the other HLA-B\*44 primer mixes.

'?', nucleotide sequence information not available for the primer matching sequence.

INTERPRETATION TABLE																								
HLA-B*44 SSP subtyping																								
Amplification patterns of the B*4402 to B*4460 alleles																								
	Well <sup>5</sup>																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Length of spec.	260	90	225	160	75	170	145	90	120	255	150	145	90	95	170	145	195	115	150	130	100	290	145	135
PCR product(s)						195	165	115	195	345								270	190	220	175			
Length of int. pos control <sup>1</sup>	800	800	800	1070	1070	1070	1070	1070	1070	800	800	1070	1070	800	1070	800	1070	1070	1070	1070	800	800	800	1070
5'-primer(s) <sup>2</sup>	355	142	355	418	539	142	206	142	420	49	206	206	206	206	409	206	418	6	206	106	257	49	668	4 <sup>th</sup> ir
	5'-TCA <sup>3'</sup>	5'-TCA <sup>3'</sup>	5'-TCA <sup>3'</sup>	5'-Agg <sup>3'</sup>	5'-gCg <sup>3'</sup>	5'-TCC <sup>3'</sup>	5'-gAC <sup>3'</sup>	5'-TCA <sup>3'</sup>	5'-TTA <sup>3'</sup>	5'-CAG <sup>3'</sup>	5'-gAA <sup>3'</sup>	5'-gAA <sup>3'</sup>	5'-gAA <sup>3'</sup>	5'-gAA <sup>3'</sup>	5'-ggC <sup>3'</sup>	5'-gAA <sup>3'</sup>	5'-Agg <sup>3'</sup>	5'-gCg <sup>3'</sup>	5'-gAA <sup>3'</sup>	5'-CCg <sup>3'</sup>	5'-CCC <sup>3'</sup>	5'-CAG <sup>3'</sup>	5'-ggT <sup>3'</sup>	5'-CCg <sup>3'</sup>
						418	418	355	493	357								499	418	395	418			
						5'-AgT <sup>3'</sup>	5'-Agg <sup>3'</sup>	5'-TCA <sup>3'</sup>	5'-CTT <sup>3'</sup>	5'-Tgg <sup>3'</sup>								5'-TCT <sup>3'</sup>	5'-Agg <sup>3'</sup>	5'-gCT <sup>3'</sup>	5'-Agg <sup>3'</sup>			
3'-primer(s) <sup>3</sup>	572	193	538	539	572	272	309	193	572	226	317	311	255	259	538	309	572	106	313	193	317	171	774	5 <sup>th</sup> e
	5'-gCg <sup>3'</sup>	5'-CgT <sup>3'</sup>	5'-gTC <sup>3'</sup>	5'-TCA <sup>3'</sup>	5'-gCg <sup>3'</sup>	5'-Tgg <sup>3'</sup>	5'-ATC <sup>3'</sup>	5'-CgC <sup>3'</sup>	5'-gCg <sup>3'</sup>	5'-CAC <sup>3'</sup>	5'-ggA <sup>3'</sup>	5'-ggT <sup>3'</sup>	5'-CgC <sup>3'</sup>	5'-gTT <sup>3'</sup>	5'-gTC <sup>3'</sup>	5'-ATC <sup>3'</sup>	5'-gCg <sup>3'</sup>	5'-CAT <sup>3'</sup>	5'-Cgg <sup>3'</sup>	5'-CgT <sup>3'</sup>	5'-ggA <sup>3'</sup>	5'-ACC <sup>3'</sup>	5'-ggT <sup>3'</sup>	5'-TCA <sup>3'</sup>
						572	544	430		572				572				572	566	572	544			
						5'-gCg <sup>3'</sup>	5'-ggT <sup>3'</sup>	5'-gC <sup>3'</sup>		5'-gCg <sup>3'</sup>				5'-gCC <sup>3'</sup>				5'-gCg <sup>3'</sup>	5'-CCg <sup>3'</sup>	5'-gCg <sup>3'</sup>	5'-ggT <sup>3'</sup>			
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
HLA-B allele <sup>4</sup>																								
*44020101, 440202-440204	1	2	3								11						17						23	
*44020102S	1	2	3								11						17						23	24
*440301-440303	1	2		4							11						17						23	
*4404	1	2			5						11						17						23	
*4405	1	2	3			6					11												23	
*4406	1		3				7										17						?	
*4407	1			4				8			11						17						23	
*4408	1		3					8									17						23	
*4409	1	2	3								12						17						23	
*4410	1	2				6			9		11												?	
*4411	1	2	3								11						17		19				?	
*4412	1	2	3								11			14			17						?	
*4413	1	2		4							11		13				17						23	
*4414	1	2	3								11				15								?	
*4415		2				6			9	10	11												?	
*4416		2	3								11											21	23	
*4417	1	2	3			6					11				15								?	
*4418		2				6			9	10	11					16							?	
*4419N	1	2	3								11						17	18					23	
*4420		2								10	11						17						?	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24



INTERPRETATION TABLE																							
HLA-B*44 SSP subtyping																							
Amplification patterns of the B*4402 to B*4460 alleles																							
Well <sup>5</sup>																							
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
145	135	160	165	255	195	195	155	195	160	180	145	205	225	75	235	255	165	110	85	250	445	195	75
1070	800	800	1070	800	800	1070	1070	1070	800	800	800	1070	800	800	1070	1070	1070	800	800	800	800	1070	1070
668	445	141	418	97	420	419	540	418	420	418	206	409	355	540	379	97	412	418	418	363	206	142	418
5'-ggC <sup>3'</sup>	5'-TCA <sup>3'</sup>	5'-ATT <sup>3'</sup>	5'-Agg <sup>3'</sup>	5'-TCC <sup>3'</sup>	5'-TTA <sup>3'</sup>	5'-gTC <sup>3'</sup>	5'-gAC <sup>3'</sup>	5'-Agg <sup>3'</sup>	5'-TTA <sup>3'</sup>	5'-Agg <sup>3'</sup>	5'-AgA <sup>3'</sup>	5'-ggC <sup>3'</sup>	5'-CCC <sup>3'</sup>	5'-gAC <sup>3'</sup>	5'-ACC <sup>3'</sup>	5'-TCg <sup>3'</sup>	5'-ATA <sup>3'</sup>	5'-Agg <sup>3'</sup>	5'-Agg <sup>3'</sup>	5'-AgC <sup>3'</sup>	5'-gAA <sup>3'</sup>	5'-TCA <sup>3'</sup>	5'-Agg <sup>3'</sup>
774	538	259	540	309	572	572	3 <sup>rd</sup>	572	538	559	309	572	538	572	572	309	538	489	463	572	369	295	453
5'-ggT <sup>3'</sup>	5'-gTC <sup>3'</sup>	5'-CTC <sup>3'</sup>	5'-CTT <sup>3'</sup>	5'-gTg <sup>3'</sup>	5'-gCg <sup>3'</sup>	5'-gCg <sup>3'</sup>	5'-TAT <sup>3'</sup>	5'-gCC <sup>3'</sup>	5'-gTC <sup>3'</sup>	5'-CgT <sup>3'</sup>	5'-gTg <sup>3'</sup>	5'-gCg <sup>3'</sup>	5'-gTC <sup>3'</sup>	5'-gCC <sup>3'</sup>	5'-gCg <sup>3'</sup>	5'-gTg <sup>3'</sup>	5'-gTC <sup>3'</sup>	5'-gCg <sup>3'</sup>	5'-gCg <sup>3'</sup>	5'-gCg <sup>3'</sup>	5'-CCT <sup>3'</sup>	5'-TCA <sup>3'</sup>	5'-TCC <sup>3'</sup>
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
							32																
							32																
										35													
							32																
?							32																
							32																
							32																
?					30							37			40								
?							32																
?							32																
							32																
?							32					37						42					
?					29	30	32		34						40								
							32	33						39									
?						31	32					37											
?					30		32		34						40								
							32																
?							32																
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48

101.563-24/03 – including *Taq* polymerase101.563-24u/03u – without *Taq* polymeraseLot No.: **34E**

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Length of spec.	260	90	225	160	75	170	145	90	120	255	150	145	90	95	170	145	195	115	150	130	100	290	145	135
PCR product(s)							195	165	115	195	345							270	190	220	175			
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*4421	1	2	3								11						17				21		23	
*4422	1	2	3								11						17			20			?	
*4423N	1	2	3						9		11						17						23	
*4424	1	2	3							10	11						17						?	
*4425	1	2	3			6					11					16								?
*4426	1	2		4							11						17					22	?	
*4427	1	2	3								11						17							
*442801-442802	1	2			5						11						17						?	
*4429	1	2					7				11						17						?	
*4430	1	2		4							11						17		19				?	
*4431		2				6					11							18						
*4432	1	2		4							11						17					21	?	
*4433	1	2	3								11						17						?	
*4434	1		3								11						17						?	
*4435	1	2									11						17						?	
*4436	1	2		4							11						17			20			?	
*4437		2		4							11												?	
*4438	1	2		4				8			11						17						?	
*4439	1			4		6					11						17						23	
*4440	1			4													17						?	
*4441		2									11						17						?	
*4442		2	3								11												?	
*4443	1	2				6					11												?	
*4444	1		3														17						?	
*4445	1	2									11												?	
*4446	1	2		4								12					17						23	
*4447		2		4						10	11						17						?	
*4448	1	2	3								11						17						?	
*4449	1	2	3								11						17						23	
*4450	1	2		4							11					16	17						?	
*4451	1	2	3								11				15								23	
*4452N	1	2	3								11						17						23	
*4453	1	2	3								11						17						23	
*4454		2		4							11						17						?	
*4455	1	2	3								11						17						?	
*4456N	1	2			5						11						17						23	
*4457	1			4				8									17						23	
*4458N	1	2	3			6					11												?	
*4459	1	2	3								11						17						23	
*4460	1			4													17						?	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.
145	135	160	165	255	195	195	155	195	160	180	145	205	225	75	235	255	165	110	85	250	445	195	75	Length of spec. PCR product(s)
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.
							32																	*4421
?							32																	*4422
							32																	*4423N
?							32																	*4424
?							32																	*4425
?							32																	*4426
25							32																	*4427
?																								*442801-442802
?																								*4429
?																								*4430
25												37												*4431
?																								*4432
?	26						32																	*4433
?		27					32																	*4434
?			28																					*4435
?																								*4436
?								33																*4437
?																								*4438
																								*4439
?											36													*4440
?							32						38											*4441
?							32						39											*4442
?						31						37												*4443
?							32				36													*4444
?												37												*4445
																								*4446
?																								*4447
?							32								40									*4448
							32									41								*4449
?																								*4450
							32					37												*4451
							32											43						*4452N
							32												44					*4453
?																				45				*4454
?				29			32																	*4455
										35												46		*4456N
																								*4457
?							32															47		*4458N
							32																48	*4459
?																								*4460
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.

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Length of spec.	260	90	225	160	75	170	145	90	120	255	150	145	90	95	170	145	195	115	150	130	100	290	145	135
PCR product(s)							195	165	115	195	345							270	190	220	175			
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*070201-0703, 070501-071802, 0721-0724, 0726, 0727, 0729-0764, 0806, 0813, 0820, 0825, 1301-1304, 1306-1321, 15010101-150104, 150106-1513, 1515-1519, 1521, 1523-1540, 1542-1545, 1547-1550, 1552, 1554-1558, 1560-1576, 1578-1582, 1584-1590, 1592-1599, 9501, 9503-9505, 9507-9514, 9516-9529, 9532-9542, 9544-9546, 180101-1808, 1810-1815, 1817N-1829, 2702-270402, 270502-2721, 2723-2742, 3531, 3543, 3546, 3557, 3560, 3579, 3702, 3707, 3943, 4012, 4021, 4046, 460101-4609, 4611-4614, 480101-480102, 480301-4819, 5401-5413, 550101-550102, 550104-5505, 5507-5519, 5521-5530, 5601-5604, 5606, 5608-5612, 5614-5620, 5622, 5623, 570101-570302, 5705, 5706, 5708, 5710-5716, 5901, 5902, 8101, 8102, 8104N																								
*0704, 0719, 0725, 0807, 1551, 3709, 4209																15								
*0720					5	6																		
*0728																					21			
*080101-080105, 0803-0805, 0808N, 0810-0812, 0815-0819N, 0821-0824, 0826, 0829-0836, 3587, 4201, 4202, 420501-4208																15								
*0802																15								
*0809, 0827, 1583, 4204, 5520																15								
*0814, 0828																								
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

101.563-24/03 – including *Taq* polymerase

101.563-24u/03u – without *Taq* polymerase

Lot No.: **34E**

Lot-specific information

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145	135	160	165	255	195	195	155	195	160	180	145	205	225	75	235	255	165	110	85	250	445	195	75	Length of spec.	
																									PCR product(s)
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.	
25																									*070201-0703, 070501-071802, 0721-0724, 0726, 0727, 0729-0764, 0806, 0813, 0820, 0825, 1301-1304, 1306, 1321, 15010101-150104, 150106-1513, 1515-1519, 1521, 1523-1540, 1542-1545, 1547-1550, 1552, 1554-1558, 1560-1576, 1578-1582, 1584-1590, 1592-1599, 9501, 9503, 9505, 9507-9514, 9516-9529, 9532-9542, 9544-9546, 180101-1808, 1810-1815, 1817N-1829, 2702-270402, 270502-2721, 2723-2742, 3531, 3543, 3546, 3557, 3560, 3579, 3702, 3707, 3943, 4012, 4021, 4046, 460101-4609, 4611-4614, 480101-480102, 480301-4819, 5401-5413, 550101-550102, 550104-5505, 5507-5519, 5521-5530, 5601-5604, 5606, 5608-5612, 5614-5620, 5622, 5623, 570101-570302, 5705, 5706, 5708, 5710-5716, 5901, 5902, 8101, 8102, 8104N
25							32						38	39											*0704, 0719, 0725, 0807, 1551, 3709, 4209
25												37									45				*0720
25								33												44					*0728
25							32						38	39				42							*080101-080105, 0803-0805, 0808N, 0810-0812, 0815-0819N, 0821-0824, 0826, 0829-0836, 3587, 4201, 4202, 420501-4208
25							32				36		38	39		41	42								*0802
25							32						39				42								*0809, 0827, 1583, 4204, 5520
25							32						38	39											*0814, 0828
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.	

Lot No.: **34E**

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Length of spec.	260	90	225	160	75	170	145	90	120	255	150	145	90	95	170	145	195	115	150	130	100	290	145	135
PCR product(s)						195	165	115	195	345								270	190	220	175			
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*1401-1408, 1520, 350101-3518, 352001-3530, 3532-3537, 3539-3542, 3544, 3548-3556, 3558, 3559, 3561, 3562, 3564-3570, 3572, 3574-3578, 3580-3586, 3588, 380101-380102, 3805, 3809-3814, 3816, 3817, 39010101-39010102L, 390103-3920, 3922-3942, 4802, 5150, 5154, 5303, 5309, 5311-5313, 560501-560502, 5621, 5817N, 670101-6702, 7801-7805, 8103																								
*1514, 1591, 9531						6																		
*1546, 9506, 4010												12												
*1553, 400101-4007, 4009, 4011, 401401-4016, 4018, 4020, 4022N-4024, 4026-4040, 4042-4045, 4048-4057, 4059-4067, 4069-4075, 4077-4082, 4084-4088, 4702, 5001, 5004		2										12												
*1577, 5704																								
*9515, 5607																								
*9543												12		14										
*1809																								
*2701																								
*3519, 3547												12		14										
*3538			3												15									
*3545	1				5	6																		
*3563		2										12												
*3571	1					6																		
*370101-370104, 3703N-3705, 3708, 3711, 3713			3																					
*3706			3									11												
*3710			3																					
*3712, 5709			3												15									
*380201-3804, 3808, 3815																								
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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145	135	160	165	255	195	195	155	195	160	180	145	205	225	75	235	255	165	110	85	250	445	195	75	Length of spec. PCR product(s) Well No.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.
w																								*1401-1408, 1520, 350101-3518, 352001-3530, 3532-3537, 3539-3542, 3544, 3548-3556, 3558, 3559, 3561, 3562, 3564-3570, 3572, 3574-3578, 3580-3586, 3588, 380101-380102, 3805, 3809-3814, 3816, 3817, 39010101-39010102L, 390103-3920, 3922-3942, 4802, 5150, 5154, 5303, 5309, 5311-5313, 560501-560502, 5621, 5817N, 670101-6702, 7801-7805, 8103
25					31							37												*1514, 1591, 9531
25																								*1546, 9506, 4010
25																								*1553, 400101-4007, 4009, 4011, 401401-4016, 4018, 4020, 4022N-4024, 4026-4040, 4042-4045, 4048-4057, 4059-4067, 4069-4075, 4077-4082, 4084-4088, 4702, 5001, 5004
25								33																*1577, 5704
25											36													*9515, 5607
25																								*9543
25				29																				*1809
25				29							36													*2701
w																								*3519, 3547
w							32							39										*3538
w						31						37			40									*3545
w																								*3563
w						31						37			40									*3571
25							32							39										*370101-370104, 3703N-3705, 3708, 3711, 3713
25							32							39										*3706
25				29			32							39										*3710
25							32							39			42							*3712, 5709
f											36													*380201-3804, 3808, 3815
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.

Lot No.: **34E**

Lot-specific information

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Length of spec.	260	90	225	160	75	170	145	90	120	255	150	145	90	95	170	145	195	115	150	130	100	290	145	135
PCR product(s)							195	165	115	195	345							270	190	220	175			
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*3806, 3807, 510101-5107, 510901-5119, 5121, 5122, 512401-512402, 5126-5129, 5131-5135, 5137, 5138, 5140, 5141, 5143, 5145, 5146, 5148, 5149, 5152, 5153, 5155, 520101, 520103, 5204, 5205, 5207, 5208, 5210-5212, 530101-5302, 5304-5308, 5310, 5314-5316, 580101-5802, 5804-5806, 5808-5810N, 5812-5816							7																	
*4008, 4025, 4068		2										12		14										
*4013, 4019, 4901, 4904, 4905		2									11				16									
*4047, 4902		2									11													
*4058												12												
*4076		2																						
*4083								8				12												
*4101, 4106, 4107		2										12			15									
*4102-410302, 4108		2										12			15									
*4104		2										12			15									
*4105		2													15									
*4501, 4505, 4506		2				6			9	10		12												
*4502		2				6				10		12												
*4503		2								10		12												
*4504, 4508		2										12												
*4507		2				6			9	10		12												
*4610								8																
*47010101-47010102, 4703-4705		2									11													
*4903							7																	
*5002		2				6			9	10		12												
*5108, 5120, 5136, 5144N							7								15									
*5123						6	7			10														
*5130, 5811							7																	
*5139							7			10														
*5142	1			4			7										17						23	
*5151							7																	
*520102, 520104, 5203, 520601-520602, 5209							7																	
*5202																								
*5613															15									
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24



Lot No.: **34E**

Lot-specific information

www.olerup.com

145	135	160	165	255	195	195	155	195	160	180	145	205	225	75	235	255	165	110	85	250	445	195	75	Length of spec. PCR product(s) Well No.	
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		
																									*3806, 3807, 510101-5107, 510901-5119, 5121, 5122, 512401-512402, 5126-5129, 5131-5135, 5137, 5138, 5140, 5141, 5143, 5145, 5146, 5148, 5149, 5152, 5153, 5155, 520101, 520103, 5204, 5205, 5207, 5208, 5210-5212, 530101-5302, 5304-5308, 5310, 5314-5316, 580101-5802, 5804-5806, 5808-5810N, 5812-5816
																									*4008, 4025, 4068
25																									*4013, 4019, 4901, 4904, 4905
				29																					*4047, 4902
25	27																								*4058
25																									*4076
25																									*4083
25							32							39		42									*4101, 4106, 4107
25							32						38	39		42									*4102-410302, 4108
25							32						38	39											*4104
25							32							39		42									*4105
25				30	32			34							40										*4501, 4505, 4506
25							32								40										*4502
25							32								40										*4503
25							32		34					39											*4504, 4508
f				30	32			34							40										*4507
25																									*4610
25																									*47010101-47010102, 4703-4705
25	27																								*4903
25				30											40										*5002
f							32							39		42									*5108, 5120, 5136, 5144N
f												37													*5123
25																									*5130, 5811
f																									*5139
																									*5142
																									*5151
f	27																								*520102, 520104, 5203, 520601-520602, 5209
f	27																								*5202
25							32		34					39		42									*5613
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.	

101.563-24/03 – including *Taq* polymerase101.563-24u/03u – without *Taq* polymeraseLot No.: **34E**

Lot-specific information

www.olerup.com

Length of spec.	260	90	225	160	75	170	145	90	120	255	150	145	90	95	170	145	195	115	150	130	100	290	145	135
PCR product(s)						195	165	115	195	345								270	190	220	175			
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*5707	1					6																		
*5807						6	7																	
*8201-8202						6			9						15									
*8301	1		3														17							
HLA-B allele <sup>4</sup>																								
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Cw*070401-070402, 0711, 0712, 0745																								
Cw*1610																								
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

<sup>1</sup>The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells.

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-B\*44 subtyping.

In addition, wells number 1, 2, 3, 10, 11, 14, 16, 21, 22, 23, 26, 27, 29, 30, 34, 35, 36, 38, 39, 43, 44, 45 and 46 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

<sup>2</sup>The nucleotide position, in the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> or 4<sup>th</sup> exon or 4<sup>th</sup> intron matching the specificity-determining 3'-end of the primer is given. Nucleotide numbering as on the [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla) web site. The sequence of the 3 terminal nucleotides of the primer is given.

<sup>3</sup>The nucleotide position, in 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> or 5<sup>th</sup> exon or 3<sup>rd</sup> intron, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Nucleotide numbering as on the [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla) web site. The sequence of the 3 terminal nucleotides of the primer is given.

<sup>4</sup>The sequence of B\*4401 has been shown to be identical to B\*4402.

101.563-24/03 – including *Taq* polymerase101.563-24u/03u – without *Taq* polymeraseLot No.: **34E**

Lot-specific information

www.olerup.com

145	135	160	165	255	195	195	155	195	160	180	145	205	225	75	235	255	165	110	85	250	445	195	75	Length of spec. PCR product(s)	
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.	
25												37													*5707
f						31						37			40										*5807
25					30		32			34		37	38		40			42							*8201-8202
25							32																		*8301
																									HLA-B allele <sup>4</sup>
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.	
														39											Cw*070401-070402, 0711, 0712, 0745
								33		35									44						Cw*1610
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.	

<sup>5</sup>Primer mix 6: Specific PCR fragment of 170 bp in the B\*4439 allele. Specific PCR fragment of 195 bp in the B\*4405, B\*4410, B\*4415, B\*4417, B\*4418, B\*4425, B\*4431, B\*4443, B\*4458N and B\*0720, B\*1514, B\*1591, B\*9531, B\*3545, B\*3571, B\*4501-4502, B\*4505-4507, B\*5002, B\*5123, B\*5707, B\*5807 and B\*8201-8202 alleles.

Primer mix 7: Specific PCR fragment of 145 bp in the B\*4406 and B\*3806-3807, B\*4903, B\*510101-5124, B\*5126-5146, B\*5148, B\*5149, B\*5151-5153, B\*5155, B\*520101-520104, B\*5203-5212, B\*530101-5302, B\*5304-5308, B\*5310, B\*5314-5316, B\*580101-5802 and B\*5804-5816 alleles. Specific PCR fragment of 165 bp in the B\*4429 allele.

Primer mix 8: Specific PCR fragment of 90 bp in the B\*4407, B\*4408, B\*4457 and B\*4083 and B\*4610 allele. Specific PCR fragment of 115 bp in the B\*4438 allele.

Primer mix 9: Specific PCR fragment of 120 bp in the B\*4423N allele. Specific PCR fragment of 195 bp in the B\*4410, B\*4415, B\*4418 and B\*4501, B\*4505-4507, B\*5002 and B\*8201-8202 alleles.

Primer mix 10: Specific PCR fragment of 255 bp in the B\*4415, B\*4418, B\*4420, B\*4447 and B\*4501-4503, B\*4505-4507, B\*5002 and B\*5123 alleles. Specific PCR fragment of 345 bp in the B\*4424 and B\*5139 alleles.

Primer mix 18: Specific PCR fragment of 115 bp in the B\*4431 allele. Specific PCR fragment of 270 bp in the B\*4419N allele.

Primer mix 19: Specific PCR fragment of 150 bp in the B\*4411 allele. Specific PCR fragment of 190 bp in the B\*4430 allele.

Primer mix 20: Specific PCR fragment of 130 bp in the B\*4422 allele. Specific PCR fragment of 220 bp in the B\*4436 allele.

Primer mix 21: Specific PCR fragment of 100 bp in the B\*4432 allele. Specific PCR fragment of 175 bp in B\*4416, B\*4421 and B\*0728 alleles.

'f', might be faintly amplified.

'?', nucleotide sequence information not available for the primer matching sequence.

<b>CELL LINE VALIDATION SHEET</b>																				
<b>HLA-B*44 SSP subtyping kit</b>																				
				Prod. No.:	Well															
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
					200729901	200729902	200729903	200729904	200729905	200729906	200729907	200729908	200729909	200729910	200729911	200729912	2.0073E+10	200729914	200729915	200729916
	<b>IHWC cell line</b>		<b>B*</b>																	
1	9001 SA		*0702		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707		*5201	*7301	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
3	9011 E4181324		*52011		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
4	9275 GU373		*1510	*5301	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
5	9009 KAS011		*3701		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM		*3901	*5101	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
7	9020 QBL		*1801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9007 DEM		*5701		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR		*3801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3		*5401		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT		*4403		+	+	-	+	-	-	-	-	-	-	+	-	-	-	-	-
12	9052 DBB		*5701		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9067 BTB		*2705		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA		*1501	*1520	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB		*4001		-	+	-	-	-	-	-	-	-	-	+	-	-	-	-	-
16	9037 SWEIG007		*4002		-	+	-	-	-	-	-	-	-	-	+	-	-	-	-	-
17	9008 WILJON		*1801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367		*1401	*5601	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16		*1801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005		*4001		-	+	-	-	-	-	-	-	-	-	+	-	-	-	-	-
21	9064 AMALA		*1501		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE		*3503		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL		*4002	*5602	-	+	-	-	-	-	-	-	-	-	+	-	-	-	-	-
24	9035 JBUSH		*3801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9		*1402		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49		*5801		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
27	9191 CH1007		*0705	*5101	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB		*4402	*4403	+	+	+	+	-	-	-	-	-	-	+	-	-	-	-	-
29	9050 MOU		*4403		+	+	-	+	-	-	-	-	-	-	+	-	-	-	-	-
30	9021 RSH		*4201		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
31	9019 DUCAF		*1801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG		*4102		-	+	-	-	-	-	-	-	-	-	+	-	-	+	-	-
33	9098 MT14B		*4001		-	+	-	-	-	-	-	-	-	-	+	-	-	-	-	-
34	9104 DHIF		*3801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO		*4402		+	+	+	-	-	-	-	-	-	-	+	-	-	-	-	-
36	9024 KT17		*1501	*3501	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB		*0702		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL		*1501		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML		*0801	*2705	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
40	9134 WHONP199		*1302	*4601	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301		*1402		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089		*4601		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526		*4601		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM		*3801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO		*4201	*5001	-	+	-	-	-	-	-	-	-	-	+	-	-	+	-	-
46	9013 SCHU		*0702		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO		*5101		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
48	9303 TER-ND		*3501	*4403	+	+	-	+	-	-	-	-	-	-	+	-	-	-	-	-

<b>CELL LINE VALIDATION SHEET</b>																					
<b>HLA-B*44 SSP subtyping kit</b>																					
				Prod. No.:	Well																
					17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
					200729917	200729918	200729919	200729920	200843921	200729922	200729923	200729924	200729925	200729926	200729927	200729928	200729929	200729930	200729931	200729932	
	<b>IHWC cell line</b>		<b>B*</b>																		
1	9001 SA		*0702		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
2	9280 LK707		*5201	*7301	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
3	9011 E4181324		*52011		-	-	-	-	-	-	-	-	f	-	-	-	-	-	-	-	-
4	9275 GU373		*1510	*5301	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
5	9009 KAS011		*3701		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	+
6	9353 SM		*3901	*5101	-	-	-	-	-	-	-	-	f	-	-	-	-	-	-	-	-
7	9020 QBL		*1801		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
8	9007 DEM		*5701		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
9	9026 YAR		*3801		-	-	-	-	-	-	-	-	f	-	-	-	-	-	-	-	-
10	9107 LKT3		*5401		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
11	9051 PITOUT		*4403		+	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
12	9052 DBB		*5701		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
13	9067 BTB		*2705		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
14	9071 OPGA		*1501	*1520	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
15	9075 DKB		*4001		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
16	9037 SWEIG007		*4002		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
17	9008 WILJON		*1801		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
18	9257 32367		*1401	*5601	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
19	9038 BM16		*1801		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
20	9059 SLE005		*4001		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
21	9064 AMALA		*1501		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
22	9056 KOSE		*3503		-	-	-	-	-	-	-	-	f	-	-	-	-	-	-	-	-
23	9124 IHL		*4002	*5602	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
24	9035 JBUSH		*3801		-	-	-	-	-	-	-	-	f	-	-	-	-	-	-	-	-
25	9049 IBW9		*1402		-	-	-	-	-	-	-	-	f	-	-	-	-	-	-	-	-
26	9285 WT49		*5801		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
27	9191 CH1007		*0705	*5101	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
28	9320 BEL5GB		*4402	*4403	+	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+
29	9050 MOU		*4403		+	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
30	9021 RSH		*4201		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	+
31	9019 DUCAF		*1801		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
32	9297 HAG		*4102		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	+
33	9098 MT14B		*4001		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
34	9104 DHIF		*3801		-	-	-	-	-	-	-	-	f	-	-	-	-	-	-	-	-
35	9302 SSTO		*4402		+	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+
36	9024 KT17		*1501	*3501	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
37	9065 HHKB		*0702		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
38	9099 LZL		*1501		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
39	9315 CML		*0801	*2705	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	+
40	9134 WHONP199		*1302	*4601	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
41	9055 H0301		*1402		-	-	-	-	-	-	-	-	f	-	-	-	-	-	-	-	-
42	9066 TAB089		*4601		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
43	9076 T7526		*4601		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
44	9057 TEM		*3801		-	-	-	-	-	-	-	-	f	-	-	-	-	-	-	-	-
45	9239 SHJO		*4201	*5001	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	+
46	9013 SCHU		*0702		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
47	9045 TUBO		*5101		-	-	-	-	-	-	-	-	f	-	-	-	-	-	-	-	-
48	9303 TER-ND		*3501	*4403	+	-	-	-	-	-	+	-	f	-	-	-	-	-	-	-	-

<b>CELL LINE VALIDATION SHEET</b>																					
<b>HLA-B*44 SSP subtyping kit</b>																					
				Prod. No.:	Well																
					33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
					200729933	200729934	200729935	200729936	200729937	200729938	2,0073E+14	200729940	200729941	200729942	200843943	200843944	200843945	200843946	200843947	200843948	
	<b>IHWC cell line</b>		<b>B*</b>																		
1	9001 SA		*0702		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707		*5201	*7301	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324		*52011		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373		*1510	*5301	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011		*3701		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
6	9353 SM		*3901	*5101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL		*1801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9007 DEM		*5701		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR		*3801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3		*5401		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT		*4403		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB		*5701		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
13	9067 BTB		*2705		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OPGA		*1501	*1520	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB		*4001		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007		*4002		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9008 WILJON		*1801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367		*1401	*5601	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16		*1801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005		*4001		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA		*1501		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE		*3503		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL		*4002	*5602	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH		*3801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9		*1402		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49		*5801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007		*0705	*5101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB		*4402	*4403	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU		*4403		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH		*4201		-	-	-	-	-	+	+	-	-	+	-	-	-	-	-	-	-
31	9019 DUCAF		*1801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG		*4102		-	-	-	-	-	+	+	-	-	+	-	-	-	-	-	-	-
33	9098 MT14B		*4001		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF		*3801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO		*4402		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17		*1501	*3501	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB		*0702		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL		*1501		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML		*0801	*2705	-	-	-	-	-	+	+	-	-	+	-	-	-	-	-	-	-
40	9134 WHONP199		*1302	*4601	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301		*1402		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089		*4601		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526		*4601		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM		*3801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO		*4201	*5001	-	-	-	-	-	+	+	-	-	+	-	-	-	-	-	-	-
46	9013 SCHU		*0702		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO		*5101		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND		*3501	*4403	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Lot No.: **34E**

Lot-specific information

www.olerup.com

## CERTIFICATE OF ANALYSIS

### Olerup SSP<sup>®</sup> HLA-B\*44 SSP

**Product number:** 101.563-24/03 – including *Taq* pol.  
101.563-24/03u – without *Taq* pol.  
**Lot number:** 34E  
**Expiry date:** 2010-April-01  
**Number of tests:** 24 tests – Product No. 101.563-24  
3 tests – Product No. 101.563-03  
**Number of wells per test:** 48

### Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2007-299-01	17	2007-299-17	33	2007-299-33
2	2007-299-02	18	2007-299-18	34	2007-299-34
3	2007-299-03	19	2007-299-19	35	2007-299-35
4	2007-299-04	20	2007-299-20	36	2007-299-36
5	2007-299-05	21	2008-439-21	37	2007-299-37
6	2007-299-06	22	2007-299-22	38	2007-299-38
7	2007-299-07	23	2007-299-23	39	2007-299-39
8	2007-299-08	24	2007-299-24	40	2007-299-40
9	2007-299-09	25	2007-299-25	41	2007-299-41
10	2007-299-10	26	2007-299-26	42	2007-299-42
11	2007-299-11	27	2007-299-27	43	2008-439-43
12	2007-299-12	28	2007-299-28	44	2008-439-44
13	2007-299-13	29	2007-299-29	45	2008-439-45
14	2007-299-14	30	2007-299-30	46	2008-439-46
15	2007-299-15	31	2007-299-31	47	2008-439-47
16	2007-299-16	32	2007-299-32	48	2008-439-48

The specificity of each primer solution of the kit has been tested against 48 well characterized IHWC cell line DNAs.

No DNAs carrying the alleles to be amplified by primer solutions 5, 8, 13, 14, 16, 18 to 22, 24, 26 to 29, 31, 33, 35 to 37, 41 and 43 to 48 were available. The specificities of the primers in primer solutions 5, 14, 16, 20, 21, 27, 29, 31, 33, 35 to 37, 41, 44 and 45 were tested by separately adding one or two additional 5'-primer(s), respectively one or two additional 3'-primer(s). In primer solutions 8, 13, 19, 22, 28, 43, 46, 47 and 48 it was only possible to test the 5'-primer, the 3'-primer was not possible to test. In primer solutions 18, 24 and 26 it was only possible to test the 3'-primer, the 5'-primer was not possible to test.

**Results:** No false positive or false negative amplifications were obtained.

**Date of approval:** 2008-April-25

**Approved by:**

**Quality Control, Supervisor**

Lot No.: **34E**

Lot-specific information

www.olerup.com

## Declaration of Conformity

**Product name:** *Olerup* SSP® HLA-B\*44  
**Product number:** 101.563-24/03, 101.563-24u/03u  
**Lot number:** 34E

**Intended use:** HLA-B\*44 high resolution histocompatibility testing

**Manufacturer:** *Olerup* SSP AB  
Hasselstigen 1  
SE-133 33 Saltsjöbaden, Sweden  
**Phone:** +46-8-717 88 27  
**Fax:** +46-8-717 88 18

We, *Olerup* SSP AB, hereby declare that this product, to which this Declaration of Conformity relates is in conformity with the following Standard(s) and other normative document(s) ISO 9001:2000 and ISO 13485:2003, following the provisions of the 98/79/EC Directive on *in vitro* diagnostic medical devices, Annex II List B, conformity assessed using Annex IV, as transposed into the national laws of the Member States of the European Union.

The Technical Documentation File is maintained at *Olerup* SSP AB, Hasselstigen 1, SE-133 33 Saltsjöbaden, Sweden.

The Authorized Representative located within the Community is: *Olerup* SSP AB.

Notified Body: Lloyd's Register Quality Assurance Limited, Hiramford, Middlemarch Office Village, Siskin Drive, Coventry CV3 4FJ, United Kingdom. (Notified Body number: 0088.)

Saltsjöbaden, Sweden  
2008-April-25

Olle Olerup  
Managing Director



HLA-B\*44

Product Insert

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101.563-24/03 – including *Taq* polymerase

101.563-24u/03u – without *Taq* polymerase

Lot No.: **34E**

Lot-specific information

[www.olerup.com](http://www.olerup.com)

HLA-B\*44

Product Insert

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101.563-24/03 – including *Taq* polymerase

101.563-24u/03u – without *Taq* polymerase

Lot No.: **34E**

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Product Insert

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101.563-24/03 – including *Taq* polymerase

101.563-24u/03u – without *Taq* polymerase

Lot No.: **34E**

Lot-specific information

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101.563-24/03 – including *Taq* polymerase  
101.563-24u/03u – without *Taq* polymerase

Lot No.: **34E**

Lot-specific information

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