

Lot No.: **50E**

Lot-specific information

## **Olerup SSP<sup>®</sup> HLA-B\*41**

Product number: 101. 542-06u– without *Taq* polymerase  
Lot number: 50E  
Expiry date: 2010-May-01  
Number of tests: 6  
Number of wells per test: 12  
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. 50E.**

### **CHANGES COMPARED TO THE PREVIOUS *OLERUP SSP*<sup>®</sup> HLA-B\*41 LOT.**

The HLA-B\*41 specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup SSP*<sup>®</sup> HLA-B\*41 lot was made (**Lot No. X75**).

One well has been added to the HLA-B\*41 kit,  
well **12**.

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

Well	5'-primer	3'-primer	rationale
3	-	Modified	Modified primer added to increase yield of specific product.
12	New	New	Primer pair added for the B*410302 allele

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## PRODUCT DESCRIPTION

### HLA-B\*41 SSP typing

#### CONTENT

The primer set contains 5'- and 3'-primers for identifying the B\*4101 to B\*4108 alleles.

#### PLATE LAYOUT

Each HLA-B\*41 test consists of 12 PCR reactions in a 16 well cut PCR plate. Wells 13 to 16 are empty.

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	empty	empty	empty	empty

The 16 well PCR plate is marked with 'HLA-B\*41'.

Well No. 1 with the Lot No. '50E'.

The PCR plates are heat-sealed with a PCR-compatible foil.

**Please note:** When removing each 16 well PCR plate, make sure that the remaining plates stay sealed. Use a scalpel or a similar instrument to carefully cut the foil between the plates.

#### INTERPRETATION

The interpretation of HLA-B\*41 SSP subtypings will be influenced by four B\*07, most B\*08, most B\*13, nine B\*15, most B\*18, three B\*27, five B\*35, the B\*37, four B\*39, most B\*40, the B\*42, six B\*44, the B\*45, the B\*4611, the B\*4817, the B\*49, the B\*50, most B\*51, the B\*52, the B\*54, most B\*55, most B\*56, the B\*5808, the B\*59, the B\*7301 and the B\*78 alleles when present on the other haplotype. In addition, the Cw\*0738 allele will be weakly amplified by primer mix 4.

#### UNIQUELY IDENTIFIED ALLELES

All the HLA-B\*41<sup>1</sup>, i.e. **B\*4101 to B\*4108** recognized by the HLA Nomenclature Committee in April 2008<sup>2</sup> will be amplified by the primers in the HLA-B\*41 SSP kit.

<sup>1</sup>The B\*4106 and B\*4508 alleles give rise to identical amplification patterns with the HLA-B\*41 high resolution kit. These two alleles can be distinguished by the HLA-B low resolution and/or HLA-B\*45 kits.

<sup>2</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).

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**RESOLUTION IN HOMO- AND HETEROZYGOTES**

The eight HLA-B\*41 alleles give rise to 9 different amplification patterns that can be combined in 45 homozygous and heterozygous combinations. Sixteen of these genotypes do not give rise to unique amplification patterns.

++-+-++	-+++	4101, 4104 = 4102, 4107 = 4104, 4107
+--+-++	-++-	4101, 4107 = 4107, 4107
+---+--	-++-	4101, 4105 = 4105, 4105
-+-+---	-++-	4102, 4104 = 410302, 4104 = 4104, 4104
-+-----	-++-	4102, 4102 = 4102, 410302
--+-----	-++-	410301, 410301 = 410301, 410302
-----+	++-	410302, 4108 = 4108, 4108

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## SPECIFICITY TABLE

### HLA-B\*41 SSP subtyping

Specificities and sizes of the PCR products of the 12 primer mixes used for HLA-B\*41 SSP subtyping

Primer Mix	Size of spec. PCR product <sup>1</sup>	Size of control band <sup>2</sup>	Amplified HLA-B*41 alleles	Other amplified HLA Class I alleles <sup>3</sup>
<b>1</b>	295 bp	<b>800 bp</b>	4101, 4105, 4107	0809, 4204, 5520
<b>2</b>	215 bp	1070 bp	4102, 4104	0704, 0719, 0725, 080101-0805, 0807, 0808N, 0810, 0811, 0814, 0815, 0817-0819N, 0821-0824, 0826-0836, 3587, 3709, 4201, 4202, 420501-4209
<b>3<sup>4,5</sup></b>	70 bp	1070 bp	410301	
<b>4</b>	270 bp	<b>800 bp</b>	4104, 4107	0712, 3566, 4059, 4060 <sup>weakly</sup> , 4817, 5315, 5520, <b>Cw*0738<sup>weakly</sup></b>
<b>5</b>	255 bp	1070 bp	4105	
<b>6</b>	220 bp	1070 bp	4101, 4105-4107	0809, 1583, 4204, 4415, 4418, 4420, 4501-4508, 5108, 5120, 5136, 5144N, 5520, 5613
<b>7</b>	295 bp	<b>800 bp</b>	4106	130201-1304, 1308Q, 1309, 1314-1316, 1318, 1319, 1504, 1516, 1542, 1567, 1583, 1595, 9537, 2714, 3537, 3560, 390601-390602, 3933, 3934, 40060101-400602, 4044, 4053, 4070, 4075, 4083, 4086, 4415, 4418, 4420, 4447, 4501-4508, 4611, 4901-4905, 5001, 5002, 5004, 510101-5103, 5105, 5107-512402,

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				5126-5141N, 5143, 5144N, 5148-5155, 520101-5212, 5401-5405N, 5407, 5408N, 5410-5413, 550101-5503, 5505, 5507, 5509-5513, 5515-5519, 5521-5530, 5601, 560501-5608, 5613-5617, 5619N-5623, 5808, 5901, 5902, 7301, 7801-7805
<b>8<sup>5</sup></b>	215 bp	1070 bp	4101-4108	1571, 180101-1803, 1805, 1806, 1808-1815, 1817N-1824, 1826-1828, 2718, 2729, 3563, 370101-3713, 400101-400602, 4009, 4011, 401401-4016, 4018-4020, 4022N-4039, 4042-4048, 4050-4057, 4059, 4060, 4062-4067, 4069-4074, 4076-4088, 4415, 4418, 4455, 4501-4505, 4507, 4508, 4901-4905, 5001, 5002, 5004
<b>9<sup>4</sup></b>	105 bp	1070 bp	4108	0704, 0725, 420501-420502
<b>10<sup>4</sup></b>	110 bp	<b>800 bp</b>	4101-4105, 4107, 4108	0704, 0719, 0725, 080101-0805, 0807-0812, 0814-0819N, 0821-0824, 0826-0830N, 0832-0836, 3587, 4201, 4202, 4204-4207, 4209, 5520
<b>11</b>	245 bp	<b>800 bp</b>	4101, 4105-4107	0809, 1542, 1583, 3560, 390601-390602, 3934, 4204, 4508, 5121, 5136, 5401, 5402, 5404, 5405N, 5407, 5408N, 5410-5413, 550101-5503, 5505, 5507, 5510-5513, 5515-5521, 5523, 5525-5530, 5623, 5901, 5902

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<b>12</b>	210 bp	1070 bp	4102, 410301- 4104, 4108	0704, 0719, 0725, 080101-0805, 0807, 0808N, 0810-0812, 0814, 0815-0819N, 0821-0824, 0826-0832, 0834-0836, 1551, 3587, 3709, 4201, 4202, 420501-4209, 4441
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<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\*41 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.

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\*41 subtyping.

In addition, wells number 4, 7, 10 and 11 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

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

<sup>3</sup>Due to the sharing of sequence motifs between HLA-B alleles some non-HLA-B\*41 alleles will be amplified by primer mixes 1, 2, 4, 6 to 12. In addition, the Cw\*0738 allele will be weakly amplified by primer mix 4.

The B\*4106 and B\*4508 alleles give rise to identical amplification patterns with the HLA-B\*41 high resolution kit. These two alleles can be distinguished by the HLA-B low resolution and/or HLA-B\*45 kits.

<sup>4</sup>Short specific PCR fragments are less intense and not as sharp as longer specific bands.

<sup>5</sup>Primer mixes 3 and 8 may give rise to nonspecific amplifications.

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<b>INTERPRETATION TABLE</b>								
<b>HLA-B*41 SSP subtyping</b>								
<b>Amplification patterns of the HLA-B*4101 to B*4108 alleles</b>								
	<b>Well</b>							
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
<b>Length of spec.</b>	<b>295</b>	<b>215</b>	<b>70</b>	<b>270</b>	<b>255</b>	<b>220</b>	<b>295</b>	<b>215</b>
<b>PCR product</b>								
<b>Length of int.</b>	<b>800</b>	<b>1070</b>	<b>1070</b>	<b>800</b>	<b>1070</b>	<b>1070</b>	<b>800</b>	<b>1070</b>
<b>pos. control<sup>1</sup></b>								
<b>5'-primer<sup>2</sup></b>	<b>357</b>	<b>363</b>	<b>97</b>	<b>379</b>	<b>97</b>	<b>357</b>	<b>357</b>	<b>97</b>
	<small>5'-Tgg<sup>3'</sup></small>	<small>5'-AgC<sup>3'</sup></small>	<small>5'-TCC<sup>3'</sup></small>	<small>5'-ACC<sup>3'</sup></small>	<small>5'-TCC<sup>3'</sup></small>	<small>5'-Tgg<sup>3'</sup></small>	<small>5'-Tgg<sup>3'</sup></small>	<small>5'-TCC<sup>3'</sup></small>
<b>3'-primer<sup>3</sup></b>	<b>610</b>	<b>538</b>	<b>126</b>	<b>610</b>	<b>312</b>	<b>538</b>	<b>610</b>	<b>272</b>
	<small>5'CTC<sup>3'</sup></small>	<small>5'-gTC<sup>3'</sup></small>	<small>5'-TCT<sup>3'</sup></small>	<small>5'CTC<sup>3'</sup></small>	<small>5'-AgC<sup>3'</sup></small>	<small>5'-gTC<sup>3'</sup></small>	<small>5'CTg<sup>3'</sup></small>	<small>5'Tgg<sup>3'</sup></small>
<b>Well No.</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
<b>HLA-B allele</b>								
<b>*4101</b>	<b>1</b>					<b>6</b>		<b>8</b>
<b>*4102</b>		<b>2</b>						<b>8</b>
<b>*410301</b>			<b>3</b>					<b>8</b>
<b>*410302</b>								<b>8</b>
<b>*4104</b>		<b>2</b>		<b>4</b>				<b>8</b>
<b>*4105</b>	<b>1</b>				<b>5</b>	<b>6</b>		<b>8</b>
<b>*4106, 4508<sup>4</sup></b>						<b>6</b>	<b>7</b>	<b>8</b>
<b>*4107</b>	<b>1</b>			<b>4</b>		<b>6</b>		<b>8</b>
<b>*4108</b>								<b>8</b>
<b>*0704, 0725, 420501-420502</b>		<b>2</b>						
<b>*0712, 3566, 4817, 5315</b>				<b>4</b>				
<b>*0719, 080101-0805, 0807, 0808N, 0810, 0811, 0814, 0815, 0817-0819N, 0821-0824, 0826-0830N, 0832, 0834-0836, 3587, 4201, 4202, 4206, 4207, 4209</b>		<b>2</b>						
<b>*0833</b>		<b>2</b>						
<b>*0809, 4204</b>	<b>1</b>					<b>6</b>		
<b>*0812, 0816</b>								
<b>*0831, 4208</b>		<b>2</b>						
<b>Well No.</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>



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<b>INTERPRETATION TABLE</b>				
<b>HLA-B*41 subtyping</b>				
<b>Amplification patterns of the B*41 alleles</b>				
<b>Well</b>				
<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	
<b>105</b>	<b>110</b>	<b>245</b>	<b>210</b>	<b>Length of spec.</b>
				<b>PCR product</b>
<b>1070</b>	<b>800</b>	<b>800</b>	<b>1070</b>	<b>Length of int.</b>
				<b>pos. control<sup>1</sup></b>
<b>540</b>	<b>540</b>	<b>357</b>	<b>369</b>	<b>5'-primer<sup>2</sup></b>
<sup>5'</sup> -gAC <sup>3'</sup>	<sup>5'</sup> -gAC <sup>3'</sup>	<sup>5'</sup> -Tgg <sup>3'</sup>	<sup>5'</sup> -TAC <sup>3'</sup>	
<b>605</b>	<b>610</b>	<b>559</b>	<b>538</b>	<b>3'-primer<sup>3</sup></b>
<sup>5'</sup> gCT <sup>3'</sup>	<sup>5'</sup> CTC <sup>3'</sup>	<sup>5'</sup> -CgT <sup>3'</sup>	<sup>5'</sup> gTC <sup>3'</sup>	
<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>Well No.</b>
				<b>HLA-B allele</b>
	<b>10</b>	<b>11</b>		<b>*4101</b>
	<b>10</b>		<b>12</b>	<b>*4102</b>
	<b>10</b>		<b>12</b>	<b>*410301</b>
	<b>10</b>		<b>12</b>	<b>*410302</b>
	<b>10</b>		<b>12</b>	<b>*4104</b>
	<b>10</b>	<b>11</b>		<b>*4105</b>
		<b>11</b>		<b>*4106, 4508<sup>4</sup></b>
	<b>10</b>	<b>11</b>		<b>*4107</b>
<b>9</b>	<b>10</b>		<b>12</b>	<b>*4108</b>
<b>9</b>	<b>10</b>		<b>12</b>	<b>*0704, 0725, 420501-420502</b>
				<b>*0712, 3566, 4817, 5315</b>
	<b>10</b>		<b>12</b>	<b>*0719, 080101-0805, 0807, 0808N, 0810, 0811, 0814, 0815, 0817-0819N, 0821-0824, 0826-0830N, 0832, 0834-0836, 3587, 4201, 4202, 4206, 4207, 4209</b>
	<b>10</b>			<b>*0833</b>
	<b>10</b>	<b>11</b>		<b>*0809, 4204</b>
	<b>10</b>		<b>12</b>	<b>*0812, 0816</b>
			<b>12</b>	<b>*0831, 4208</b>
<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>Well No.</b>

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Length of spec.	295	215	70	270	255	220	295	215
PCR product								
Well No.	1	2	3	4	5	6	7	8
*130201-1304, 1308Q, 1309, 1314-1316, 1318, 1319, 1504, 1516, 1567, 1595, 9537, 2714, 3537, 3933, 4075, 4447, 4611, 510101-5103, 5105, 5107, 510901-5119, 5122-512402, 5126-5135, 5137-5141N, 5143, 5148-5155, 520101-5212, 5403, 5509, 5522, 5524, 5601, 560501-5608, 5614-5617, 5619N-5622, 5808, 7301, 7801-7805							7	
*1542, 3560, 390601-390602, 3934, 5121, 5401, 5402, 5404, 5405N, 5407, 5408N, 5410-5413, 550101-5503, 5505, 5507, 5510-5513, 5515-5519, 5521, 5523, 5525-5530, 5623, 5901, 5902							7	
*1551, 4441								
*1571, 180101-1803, 1805, 1806, 1808-1815, 1817N-1824, 1826-1828, 2718, 2729, 3563, 370101-3708, 3710-3713, 400101-4005, 4009, 4011, 401401-4016, 4018-4020, 4022N-4039, 4042, 4043, 4045-4048, 4050-4052, 4054-4057, 4062-4067, 4069, 4071-4074, 4076-4082, 4084, 4085, 4087, 4088, 4455								8
*1583, 5136						6	7	
*3709		2						8
*40060101-400602, 4044, 4053, 4070, 4083, 4086, 4901-4905, 5001, 5002, 5004							7	8
*4059				4				8
*4060				w				8
*4415, 4418, 4501-4505, 4507						6	7	8
Well No.	1	2	3	4	5	6	7	8

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105	110	245	210	Length of spec.
				PCR product
9	10	11	12	Well No.
				*130201-1304, 1308Q, 1309, 1314-1316, 1318, 1319, 1504, 1516, 1567, 1595, 9537, 2714, 3537, 3933, 4075, 4447, 4611, 510101-5103, 5105, 5107, 510901-5119, 5122-512402, 5126-5135, 5137-5141N, 5143, 5148-5155, 520101-5212, 5403, 5509, 5522, 5524, 5601, 560501-5608, 5614-5617, 5619N-5622, 5808, 7301, 7801-7805
		11		*1542, 3560, 390601-390602, 3934, 5121, 5401, 5402, 5404, 5405N, 5407, 5408N, 5410-5413, 550101-5503, 5505, 5507, 5510-5513, 5515-5519, 5521, 5523, 5525-5530, 5623, 5901, 5902
			12	*1551, 4441
				*1571, 180101-1803, 1805, 1806, 1808-1815, 1817N-1824, 1826-1828, 2718, 2729, 3563, 370101-3708, 3710-3713, 400101-4005, 4009, 4011, 401401-4016, 4018-4020, 4022N-4039, 4042, 4043, 4045-4048, 4050-4052, 4054-4057, 4062-4067, 4069, 4071-4074, 4076-4082, 4084, 4085, 4087, 4088, 4455
		11		*1583, 5136
			12	*3709
				*40060101-400602, 4044, 4053, 4070, 4083, 4086, 4901-4905, 5001, 5002, 5004
				*4059
				*4060
				*4415, 4418, 4501-4505, 4507
9	10	11	12	Well No.

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Length of spec.	295	215	70	270	255	220	295	215
PCR product								
Well No.	1	2	3	4	5	6	7	8
*4420, 4506, 5108, 5120, 5144N, 5613						6	7	
*5520	1			4		6		
HLA-B allele								
Well No.	1	2	3	4	5	6	7	8
Cw*0738				w				
Well No.	1	2	3	4	5	6	7	8

<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\*41 SSP subtyping.

In addition, wells number 4, 7, 10 and 11 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

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<b>105</b>	<b>110</b>	<b>245</b>	<b>210</b>	<b>Length of spec.</b>
				<b>PCR product</b>
<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>Well No.</b>
				<b>*4420, 4506, 5108, 5120, 5144N, 5613</b>
	<b>10</b>	<b>11</b>		<b>*5520</b>
				<b>HLA-B allele</b>
<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>Well No.</b>
				<b>Cw*0738</b>
<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>Well No.</b>

<sup>2</sup>The nucleotide position, in the 2<sup>nd</sup> or 3<sup>rd</sup> exons, 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 the 2<sup>nd</sup> or 3<sup>rd</sup> exons, 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>4</sup>The B\*4106 and B\*4508 alleles give rise to identical amplification patterns with the HLA-B\*41 high resolution kit. These two alleles can be distinguished by the HLA-B low resolution and/or HLA-B\*45 kits.

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<b>CELL LINE VALIDATION SHEET</b>																
<b>HLA-B*41 SSP primer set</b>																
				Prod. No.:	Well											
					1	2	3	4	5	6	7	8	9	10	11	12
					200845401	200845402	200845403	200845404	200845405	200845406	200845407	200845408	200845409	200845410	200845411	200845412
	<b>IHC 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	-	-	-	-	-	-	-	-	-	-	-	-

Lot No.: **50E**

Lot-specific information

## CERTIFICATE OF ANALYSIS

### **Olerup SSP<sup>®</sup> HLA-B\*41 SSP**

**Product number:** 101. 542-06u– without *Taq* polymerase  
**Lot number:** 50E  
**Expiry date:** 2010-May-01  
**Number of tests:** 6  
**Number of wells per test:** 12

#### **Well specifications:**

Well No.	Production No.	Well No.	Production No.
1	2008-454-01	9	2008-454-09
2	2008-454-02	10	2008-454-10
3	2008-454-03	11	2008-454-11
4	2008-454-04	12	2008-454-12
5	2008-454-05		
6	2008-454-06		
7	2008-454-07		
8	2008-454-08		

The specificity of each primer solution of the HLA-B\*41 primer set has been tested against 48 well characterized IHWC cell line DNAs.

No DNAs carrying the alleles to be amplified by primer solutions 3, 4, 5 and 9 were available. The specificities of the primers in primer solutions 3, 4 and 9 were tested by separately adding one additional 3'-primer, respectively one additional 5'-primer. In primer solution 5 it was only possible to test the 5'-primer, the 3'-primer was not possible to test.

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

**Date of approval:** 2009-May-27

**Approved by:**

**Quality Control, Supervisor**

Lot No.: **50E**

Lot-specific information

## Declaration of Conformity

**Product name:** *Olerup* SSP® HLA-B\*41  
**Product number:** 101.542-06u  
**Lot number:** 50E

**Intended use:** HLA-B\*41 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  
2009-May-27

Olle Olerup  
Managing Director



Lot No.: **50E**

Lot-specific information

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