

Olerup SSP[®] HLA-B*49

Product number:	101.547-06 – including <i>Taq</i> polymerase
Lot number:	05H
Expiry date:	2012-March-01
Number of tests:	6
Number of wells per test:	11
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. 05H.

CHANGES COMPARED TO THE PREVIOUS *OLERUP SSP*[®] HLA-B*49 LOT.

The HLA-B*49 specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup SSP*[®] HLA-B*49 lot was made (Lot No. 64F).

Three wells has been added to the HLA-B*49 kit,
wells **9** to **11**.

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

Well	5'-primer	3'-primer	rationale
2	Added	Added	Primer pair added for the B*4906 allele.
4	Added	Added	Primer pair added for the B*4909 allele.
9	New	New	New primer pair for the B*4907 allele.
10	New	New	New primer pair for the B*4908 allele.
11	New	New	New primer pair for improved allelic resolution.

PRODUCT DESCRIPTION

HLA-B*49 SSP typing

CONTENT

The primer set contains 5'- and 3'-primers for identifying the B*4901 to B*4909 alleles.

PLATE LAYOUT

Each HLA-B*49 test consists of 11 PCR reactions in a 16 well cut PCR plate. Wells 12 to 16 are empty.

1	2	3	4	5	6	7	8
9	10	11	empty	empty	empty	empty	empty

The 16 well PCR plate is marked with ‘HLA-B*49’ in silver/gray ink.

Well No. 1 is marked with the Lot No. ‘05H’.

A faint row of numbers is seen between wells 1 and 2 or wells 7 and 8 of the PCR trays. These stem from the manufacture of the trays, and should be disregarded.

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*49 SSP subtypings will be influenced by two B*07, three B*08, most B*13, nine B*15, two B*18, two B*27, two B*35, the B*3710, six B*39, several B*40, six B*41, the B*4204, most B*44, the B*45, two B*46, the B*4704, the B*50, most B*51, the B*52, most B*54, most B*55, most B*56, two B*57, two B*58, the B*59, the B*7301 and the B*78 alleles when present on the other haplotype.

UNIQUELY IDENTIFIED ALLELES

All the HLA-B*49, i.e. **B*4901 to B*4909**, recognized by the HLA Nomenclature Committee in January 2010¹ will be amplified by the primers in the HLA-B*49 SSP kit. The HLA-B*49 subtyping kit cannot distinguish the B*490101 and B*490102 alleles.

¹HLA-B alleles listed on the IMGT/HLA web page 2010-January-15, release 2.28.0, www.ebi.ac.uk/imgt/hla.

RESOLUTION IN HOMO- AND HETEROZYGOTES

The nine HLA-B*49 alleles can be combined in 45 homozygous and heterozygous combinations. Twenty-four of these genotypes do not give rise to unique amplification patterns.

+++--+--	---	4901, 4902 = 4902, 4906
++-+++--	---	4903, 4906 = 4906, 4909
+--+++--	---	4901, 4906 = 4906, 4906
+---++++	---	4903, 4905 = 4905, 4909
+---++++	---	4903, 4904 = 4904, 4909
+---++++	+--	4903, 4907 = 4907, 4909
+---++++	-+-	4903, 4908 = 4908, 4909
+---++++	---	4901, 4903 = 4901, 4909 = 4903, 4909 = 4909, 4909
+---++++	+--	4901, 4907 = 4907, 4907
+---++++	-+-	4901, 4908 = 4908, 4908
+-----+	---	4904, 4905 = 4905, 4905

4901 = 490101 and 490102

SPECIFICITY TABLE

HLA-B*49 SSP subtyping

Specificities and sizes of the PCR products of the 11 primer mixes used for HLA-B*49 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-B*49 alleles	Other amplified HLA-B alleles ³
1	145 bp	800 bp	*490101, 490102, 4904-4909	*4013, 4019, 4418, 4425, 4450, 4495
2^{5,7}	145 bp, 255 bp	1070 bp	*4902, 4906	*1323, 1809, 2701, 3710, 4047, 4096, 4415, 4455, 5813
3	145 bp	1070 bp	*4902	*4047, 4096, 44020101-440502, 4407, 4410, 4412-4417, 4419N-4424, 4426-4439, 4441-4443, 4445, 4447-4449, 4451-4456N, 4458N, 4459, 4461N-4474, 4476-4482, 4484-4489, 4491-4494, 4496-4499, 4704
4⁸	170 bp, 205 bp	1070 bp	*4903, 4909	*1315, 1804, 4058, 440210, 4434, 5107, 5162, 520102, 520104, 5202, 5203, 5209
5⁴	105 bp	1070 bp	*490101-4903, 4906-4909	*0778, 130201-1303, 1308Q, 1309, 1314-1316, 1318, 1319, 1327, 1330-1334, 1542, 3560, 4415, 4418, 4501, 4503-4508, 4510, 4511, 4611, 4618, 500101-5002, 5004-5008, 5115, 5401-5403, 5405N, 5407, 5408N, 5410, 5412, 5413, 5416-5419, 550101-5503, 5505, 5507, 5509-5512, 5515, 5516, 5518, 5519, 5521, 5522, 5524-5526, 5529-5531, 5533-5538, 560101-560103, 5607, 5608, 5613, 5614, 5616, 5617, 5619N, 5620, 5623-5627, 5901, 5904, 5905
6⁶	160 bp	1070 bp	*490101-4903, 4906-4909	*130101-1303, 1306-1309, 1311, 1312, 1314-1317, 1319, 1320, 132201-1323, 1325, 1327-1330, 1332-1334, 1336,

Lot No.: **05H**

Lot-specific information

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				1542, 1586, 3560, 3917, 4048, 4071, 4410, 4611, 4618, 500101-5002, 5004- 5008, 5115, 5162, 5401-5403, 5405N, 5407, 5408N, 5412, 5413, 5417-5419, 550101- 5503, 5505, 5507, 5510-5512, 5515, 5516, 5518, 5519, 5522, 5524-5526, 5529-5531, 5533-5536, 5538, 5539, 560101-5602, 5604, 5607, 5608, 5610, 5614, 5616, 5617, 5619N, 5620, 5623- 5627, 5901, 5904, 5905
7⁴	105 bp	1070 bp	*4904, 4905	*1304, 1504, 1516, 1567, 1595, 9537, 9555, 3537, 390601, 390602, 3933, 3934, 3950, 4086, 4502, 4509, 5009, 511301, 511302, 5137, 5163, 5214, 5414, 5513, 5523, 5532, 5622, 5903, 7301
8⁴	70 bp	1070 bp	*4905	*0778, 0784, 0809, 130201- 130205, 1303, 1304, 1308Q, 1309, 1314-1316, 1318, 1319, 1327, 1330-1335, 1504, 1516, 1542, 1567, 1583, 1595, 9537, 9555, 2714, 3560, 390601, 390602, 3933, 3934, 3950, 40060101-400602, 4044, 4053, 4070, 4075, 4083, 4086, 4093, 4095, 4096, 4101, 4105-4107, 4109, 4112, 4204, 4420, 4447, 4611, 4618, 510101-5103, 5105, 5107-5116, 5119- 512403, 5126-5141N, 5143, 5144N, 5148-5155, 5157, 5158, 5160, 5161, 5163, 5165-5180, 5182-5189, 520101-5219, 5401-5405N, 5407, 5408N, 5410-5414, 5416-5419, 550101-5503, 5505, 5507, 5509-5513, 5515-5526, 5528-5539, 560101-560103, 560501- 5608, 5613-5617, 5619N- 5627, 5808, 5901-5905, 7301, 7801-7806

Lot No.: **05H**

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9	245 bp	1070 bp	*4907	*0778, 0784, 130201-130206, 1308Q, 1309, 1314-1316, 1318, 1319, 1327, 1330-1335, 2714, 3950, 40060101-400602, 4044, 4053, 4070, 4075, 4083, 4086, 4093, 4095, 4096, 4510, 5110, 5116, 5131, 5134, 5182, 5208, 5509, 5522, 5524, 7301
10	250 bp	800 bp	*4908	
11	505 bp	1070 bp		*0803, 0852, 4406, 4418, 4425, 4495, 5108, 5120, 5136, 5144N, 5219, 5709, 5724

¹Alleles 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*49 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 lengths 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.

²The 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*49 SSP subtyping. In addition, well number 10 contains 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.

³Due to the sharing of sequence motifs between HLA-B alleles some non-HLA-B*49 alleles will be amplified by primer mixes 1 to 9 and 11.

⁴Short specific PCR fragments are less intense and not as sharp as longer specific bands.

⁵Primer mix 2 may generate a false band of about 800 base pairs. This band should be disregarded when interpreting the HLA-B*49 SSP typings.

⁶Primer mix 6 may have a tendency of giving rise to nonspecific amplifications, and may also give a lower yield of specific PCR product than the other HLA-B*49 primer mixes.

⁷Primer mix 2: Specific PCR fragment of 145 bp in the B*4906 and the B*5813 alleles. Specific PCR fragment of 255 bp in the B*4902 and the B*1323, 1809, 2701, 3710, 4047, 4096, 4415 and B*4455 alleles.

⁸Primer mix 4: Specific PCR fragment of 170 bp in the B* 4903 and the B*1804, 4058, 440210, 4434, 5107, 520102, 520104, 5202, 5203 and B*5209 alleles. Specific PCR fragment of 205 bp in the B*4909 and the B*1315 and B*5162 alleles.

INTERPRETATION TABLE											
HLA-B*49 SSP subtyping											
Amplification patterns of the B*4901 to B*4909 alleles											
	Well ⁴										
	1	2	3	4	5	6	7	8	9	10	11
Length of spec.	145	145	145	170	105	160	105	70	245	250	505
PCR product(s)		255		205							
Length of int.											
pos. control ¹	800	1070	1070	1070	1070	1070	1070	1070	1070	800	1070
5'-primer ²	206	97	206	141	357	420	357	357	357	357	317
	5' -gAA 3'	5' -TCC 3'	5' -gAA 3'	5' -ATT 3'	5' -Tgg 3'	5' -TTA 3'	5' -Tgg 3'	5' -Tgg 3'	5' -Tgg 3'	5' -Tgg 3'	5' -gCT 3'
		454		420							
		5' -ACA 3'		5' -TTA 3'							
3'-primer(s) ³	309	309	309	272	420	538	419	387	559	565	538
	5' -ATC 3'	5' -gTg 3'	5' -gTg 3'	5' -Tgg 3'	5' -gCT 3'	5' -CAg 3'	5' -Cgg 3'	5' -TCC 3'	5' -CTC 3'	5' -CAg 3'	5' -gTC 3'
		559		583			419				
		5' -CAg 3'		5' -gTg 3'			5' -CgA 3'				
Well No.	1	2	3	4	5	6	7	8	9	10	11
HLA-B allele											
*490101, 490102	1				5	6					
*4902		2	3		5	6					
*4903				4	5	6					
*4904	1						7				
*4905	1						7	8			
*4906	1	2			5	6					
*4907	1				5	6			9		
*4908	1				5	6				10	
*4909	1			4	5	6					
*0778, 1318, 1331, 5509					5			8	9		
*0784, 1335, 2714, 40060101-400602, 4044, 4053, 4070, 4075, 4083, 4093, 4095, 5110, 5116, 5131, 5134, 5182, 5208								8	9		
*0803, 0852, 4406, 5709, 5724											11
*0809, 1583, 4101, 4105-4107, 4109, 4112, 4204, 510101-5103, 5105, 510901, 510902, 5111N, 5112, 5114, 5119, 5121-512403, 5126-5130, 5132, 5133, 5135, 5138-5141N, 5143, 5148-5155, 5157, 5158, 5160, 5161, 5165-5180, 5183-5189, 520101, 520103, 520105, 5204-5207, 5210-5213, 5215-5218, 5404, 5411, 5517, 5520, 5528, 560501-5606, 5615, 5621, 5808, 5902, 7801-7806								8			
Well No.	1	2	3	4	5	6	7	8	9	10	11

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Length of spec.	145	145	145	170	105	160	105	70	245	250	505
PCR product(s)		255		205							
Well No.	1	2	3	4	5	6	7	8	9	10	11
*130101-130103, 1306, 1307N, 1311, 1312, 1317, 1320, 132201, 132202, 1325, 1328, 1329, 1336, 1586, 3917, 4048, 4071, 5602, 5604, 5610						6					
*130201-130205, 1308Q, 1309, 1314, 1316, 1319, 1327, 1330, 1332-1334, 5522, 5524					5	6		8	9		
*130206					5	6			9		
*1303, 1542, 3560, 4611, 4618, 5115, 5401-5403, 5405N, 5407, 5408N, 5412, 5413, 5417-5419, 550101-5503, 5505, 5507, 5510-5512, 5515, 5516, 5518, 5519, 5525, 5526, 5529-5531, 5533-5536, 5538, 560101-560103, 5607, 5608, 5614, 5616, 5617, 5619N, 5620, 5623-5627, 5901, 5904, 5905					5	6		8			
*1304, 1504, 1516, 1567, 1595, 9537, 9555, 390601, 390602, 3933, 3934, 511301, 511302, 5137, 5163, 5214, 5414, 5513, 5523, 5532, 5622, 5903							7	8			
*1315				4	5	6		8	9		
*1323		2				6					
*1804, 4058				4							
*1809, 2701, 3710, 5813		2									
*3537, 4502, 4509, 5009							7				
*3950, 4086, 7301							7	8	9		
*4013, 4019, 4450	1										
*4047, 4455		2	3								
*4096		2	3					8	9		
*44020101-440209, 440211-440502, 4407, 4412-4414, 4416, 4417, 4419N, 4421-4424, 4426-4433, 4435-4439, 4441-4443, 4445, 4448, 4449, 4451-4454, 4456N, 4458N, 4459, 4461N-4474, 4476-4482, 4484-4489, 4491-4494, 4496-4499, 4704			3								
*440210, 4434			3	4							
*4410			3			6					
*4415		2	3		5						
Well No.	1	2	3	4	5	6	7	8	9	10	11

Length of spec.	145	145	145	170	105	160	105	70	245	250	505
PCR product(s)		255		205							
Well No.	1	2	3	4	5	6	7	8	9	10	11
*4418	1				5						11
*4420, 4447			3					8			
*4425, 4495	1										11
*4501, 4503-4508, 4511					5						
*4510					5				9		
*500101-5002, 5004-5008					5	6					
*5107, 520102, 520104, 5202, 5203, 5209				4				8			
*5108, 5120, 5136, 5144N, 5219								8			11
*5162				4		6					
*5410, 5416, 5521, 5537, 5613					5			8			
*5539						6		8			
HLA-B allele											
Well No.	1	2	3	4	5	6	7	8	9	10	11

¹The 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*49 SSP subtyping.

In addition, well number 10 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

²The nucleotide position, in the 2nd or 3rd exon, matching the specificity-determining 3'-end of the primer is given. Nucleotide numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

³The nucleotide position, in the 2nd or 3rd exon, 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 web site. The sequence of the 3 terminal nucleotides of the primer is given.

⁴Primer mix 2: Specific PCR fragment of 145 bp in the B*4906 and the B*5813 alleles. Specific PCR fragment of 255 bp in the B*4902 and the B*1323, 1809, 2701, 3710, 4047, 4096, 4415 and B*4455 alleles.

Primer mix 4: Specific PCR fragment of 170 bp in the B* 4903 and the B*1804, 4058, 440210, 4434, 5107, 520102, 520104, 5202, 5203 and B*5209 alleles. Specific PCR fragment of 205 bp in the B*4909 and the B*1315 and B*5162 alleles.

CELL LINE VALIDATION SHEET															
HLA-B*49 SSP primer set															
				Well											
				1	2	3	4	5	6	7	8	9	10	11	
				200731801	201070902	200731803	201070904	200731805	200956906	200731807	200956908	201070909	201070910	201070911	
IHC cell line		B*		Prod. No.:											
1	9001 SA	*0702		-	-	-	-	-	-	-	-	-	-	-	
2	9280 LK707	*5201	*7301	-	-	-	-	-	-	+	+	+	-	-	
3	9011 E4181324	*5201		-	-	-	-	-	-	-	+	-	-	-	
4	9275 GU373	*1510	*5301	-	-	-	-	-	-	-	-	-	-	-	
5	9009 KAS011	*3701		-	-	-	-	-	-	-	-	-	-	-	
6	9353 SM	*3901	*5101	-	-	-	-	-	-	-	+	-	-	-	
7	9020 QBL	*1801		-	-	-	-	-	-	-	-	-	-	-	
8	9025 DEU	*3501		-	-	-	-	-	-	-	-	-	-	-	
9	9026 YAR	*3801		-	-	-	-	-	-	-	-	-	-	-	
10	9107 LKT3	*5401		-	-	-	-	+	+	-	+	-	-	-	
11	9051 PITOUT	*4403		-	-	+	-	-	-	-	-	-	-	-	
12	9052 DBB	*5701		-	-	-	-	-	-	-	-	-	-	-	
13	9004 JESTHOM	*2705		-	-	-	-	-	-	-	-	-	-	-	
14	9071 OLGA	*1501	*1520	-	-	-	-	-	-	-	-	-	-	-	
15	9075 DKB	*4001		-	-	-	-	-	-	-	-	-	-	-	
16	9037 SWEIG007	*4002		-	-	-	-	-	-	-	-	-	-	-	
17	9282 CTM3953540	*0801	*5501	-	-	-	-	+	+	-	+	-	-	-	
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	-	-	+	-	-	-	-	-	-	-	-	

CERTIFICATE OF ANALYSIS

Olerup SSP[®] HLA-B*49 SSP

Product number: 101.547-06 – including *Taq* polymerase
Lot number: 05H
Expiry date: 2012-March-01
Number of tests: 6
Number of wells per test: 11

Well specifications:

Well No.	Production No.	Well No.	Production No.
1	2007-318-01	9	2010-709-09
2	2010-709-02	10	2010-709-10
3	2007-318-03	11	2010-709-11
4	2010-709-04		
5	2007-318-05		
6	2009-569-06		
7	2007-318-07		
8	2009-569-08		

The specificity of each primer solution of the HLA-B*49 primer set has been tested against 48 well characterized IHWC cell line DNAs.

No DNAs carrying the alleles to be amplified by primer solutions 2, 4, 10 and 11 were available. The specificities of the primers in primer solutions 2, 4 and 11 were tested by separately adding one additional 3'-primer, respectively one additional 5'-primer. In primer solution 10, it was only possible to test the 3'-primer, the 5'-primer was not possible to test. In addition, one 5'-primer in primer solution 2 was not possible to test.

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

Date of approval: 2010-March-29

Approved by:

Quality Control, Supervisor

Declaration of Conformity

Product name: *Olerup* SSP® HLA-B*49
Product number: 101.547-06
Lot number: 05H

Intended use: HLA-B*49 high resolution histocompatibility testing

Manufacturer: *Olerup* SSP AB
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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 9001:2008 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
2010-March-29

Olle Olerup
Managing Director

Lot No.: **05H**

Lot-specific information

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