Olerup SSP® DRB1*16

Product number:	**101.126-12u – without *Taq* polymerase**
Lot number:	**02M**
Expiry date:	**2013-October-01**
Number of tests:	**12**
Number of wells per test:	**16**
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. 02M.

CHANGES COMPARED TO THE PREVIOUS *OLERUP* SSP® DRB1*16 LOT

The DRB1*16 specificity and interpretation tables have been updated for the DRB1 alleles described since the previous *Olerup* SSP® DRB1*16 lot was made **(Lot No. 04K)**.

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

Well	5'-primer	3'-primer	rationale
12	Added	-	Primer added for the DRB1*16:17 allele.

PRODUCT DESCRIPTION

DRB1*16 SSP subtyping

CONTENT
The primer set contains 5'- and 3'-primers for identifying the DRB1*16:01 to DRB1*16:18 alleles.

PLATE LAYOUT
Each test consists of 16 PCR reactions in a 16 well cut PCR plate.

1	**2**	**3**	**4**	**5**	**6**	**7**	**8**
9	**10**	**11**	**12**	**13**	**14**	**15**	**16**

The 16 well cut PCR plate is marked with 'DRB1*16' in silver/gray ink.
Well No. 1 is marked with the Lot No. '02M'.
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 covered with a PCR-compatible foil.
Please note: When removing each 16 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 DRB1*16 PCR-SSP subtypings will be influenced by the DRB1*01:23, DRB1*04:53, five DRB1*11, most DRB1*12, two DRB1*13 alleles and the DRB1*15, when present on the other haplotype. In addition, primer mix 16 will amplify the DRB5*01:13 allele.

UNIQUELY IDENTIFIED ALLELES
All the DRB1*16 alleles, i.e. **DRB1*16:01 to DRB1*16:18**, recognized by the HLA Nomenclature Committee in January 2011[1] will give rise to unique amplification patterns by the primers in the DRB1*16 subtyping kit.
The DRB1*16 subtyping kit cannot distinguish the DRB1*16:01:01 and DRB1*16:01:02 alleles, the DRB1*16:02:01 and DRB1*16:02:02 alleles or the DRB1*16:05:01 and DRB1*16:05:02 alleles.

[1]DRB1 alleles listed on the IMGT/HLA web page 2011-January-14, release 3.3.0, www.ebi.ac.uk/imgt/hla.

RESOLUTION IN HOMO- AND HETEROZYGOTES

A total of 20 alleles generate 17 amplification patterns that can be combined in 153 homozygous and heterozygous combinations. 44 of these genotypes do not give rise to unique amplification patterns.

+++-+--- ++------	*16:04, *16:10 = *16:09, *16:18
+++-+--- --------	*16:01:01, *16:18 = *16:02:01, *16:04 = *16:04, *16:18
+++----- ++------	*16:01:01, *16:10 = *16:02:01, *16:09 = *16:09, *16:10
++--+--- ---+----	*16:12, *16:18 = *16:17, *16:18
++--+--- --------	*16:02:01, *16:18 = *16:18, *16:18
++------ ++-+----	*16:10, *16:12 = *16:10, *16:17
++------ ++------	*16:02:01, *16:10 = *16:10, *16:10
++------ --+----	*16:11, *16:12 = *16:11, *16:17
++------ --+-----	*16:02:01, *16:11 = *16:11, *16:11
++------ ---+-+--	*16:12, *16:14 = *16:14, *16:17
++------ ---+---+	*16:12, *16:16 = *16:16, *16:17
++------ ---+----	*16:02:01, *16:12 = *16:02:01, *16:17 = *16:12, *16:17 = *16:17, *16:17
++------ -----+--	*16:02:01, *16:14 = *16:14, *16:14
++------ -------+	*16:02:01, *16:16 = *16:16, *16:16
+-++---- --------	*16:01:01, *16:03 = *16:03, *16:03
+-+-+--- --------	*16:01:01, *16:04 = *16:04, *16:04
+-+----+ --------	*16:01:01, *16:08 = *16:08, *16:08
+-+----- ++------	*16:01:01, *16:09 = *16:09, *16:09
+-+----- ----+---	*16:01:01, *16:13N = *16:13N, *16:13N
+----++- --------	*16:05:01, *16:07 = *16:07, *16:07

16:01 = 16:01:01 and 16:01:02
16:02 = 16:02:01 and 16:02:02
16:05 = 16:05:01 and 16:05:02

SPECIFICITY TABLE

DRB1*16 SSP subtyping

Specificities and sizes of the PCR products of the 16 primer mixes used for DRB1*16 SSP subtyping

Primer Mix	Size of spec. PCR product[1]	Size of control band[2]	Amplified DRB1*16 alleles[3]	Other amplified DRB1 alleles[4]
1	260 bp	**515 bp**	*16:01:01-16:05:02, 16:07-16:11, 16:13N-16:14, 16:16-16:18	*15:02:01-15:02:08, 15:08, 15:11, 15:14-15:15, 15:19, 15:26-15:27, 15:29-15:31, 15:34, 15:38-15:39, 15:44, 15:47
2	200 bp	**515 bp**	*16:02:01-16:02:02, 16:10-16:11, 16:14, 16:16-16:18	
3[6]	200 bp	430 bp	*16:01:01-16:01:02, 16:03-16:04, 16:08-16:09, 16:13N, 16:15	
4	215 bp	430 bp	*16:03	
5	220 bp	430 bp	*16:04, 16:18	*15:21
6	200 bp	430 bp	*16:05:01-16:05:02, 16:07	*15:10, 15:21
7	160 bp	**515 bp**	*16:07	
8[5]	110 bp	430 bp	*16:08	
9	140 bp	430 bp	*16:09-16:10	*15:01:01:01-15:06, 15:08, 15:10, 15:12-15:27, 15:29-15:33, 15:35-15:47, 15:49-15:52
10[5]	115 bp	430 bp	*16:09-16:10	*11:01:03, 11:01:10-11:01:11, 11:04:07, 11:19:02, 12:01:01, 12:01:03-12:02:03, 12:02:05-12:10, 12:12-12:15, 12:17-12:20, 12:23-12:26, 13:02:02, 13:77, 15:50N
11	215 bp	430 bp	*16:11	
12	215 bp	**515 bp**	*16:12, 16:17	
13	155 bp	430 bp	*16:13N	

14	175 bp	430 bp	*16:14	
15[5]	80 bp	430 bp	*16:15	*01:23, 04:53, 11:04:07, 12:01:01, 12:01:03-12:02:03, 12:02:05-12:06, 12:08-12:15, 12:17-12:21, 12:23-12:26, 13:77
16[5]	85 bp	430 bp	*16:16	*11:01:03, 11:01:10-11:01:11, 11:04:07, 11:19:02, 12:04, **DRB5*01:13**

[1]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 DRB*16 SSP subtypings.
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 inherit 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.
[2]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 430 base pairs, for most wells, or a band of 515 base pairs, for some wells.
Well number 1 contains the primer pair giving rise to the longer, 515 bp, internal positive control band in order to help in the correct orientation of the DRB1*16 subtyping.
In addition, wells number 2, 7 and 12 contain the primer pair giving rise to the longer, 515 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.
[3]For several DRB alleles only partial second exon nucleotide sequences are 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 first hyperpolymorphic region of the second exon of DRB alleles are conserved within allelic groups and that unknown sequences of codons 87 to 92 are identical with the DRB1*01:01 consensus sequence.
[4]Due to the sharing of sequence motifs between DRB1 alleles, primer mixes 1, 5, 6, 9, 10, 15 and 16 will amplify other DRB1 alleles. In addition, primer mix 16 will amplify the DRB5*01:13 allele.
[5]Specific PCR fragments shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR bands.
[6]Primer mix 3 may give rise to primer oligomer formation.

INTERPRETATION TABLE

DRB1*16 SSP subtyping

Amplification patterns of the DRB1*16:01 to 16:18 alleles

	Well							
	1	2	3	4	5	6	7	8
Length of spec. PCR product	260	200	200	215	220	200	160	110
Length of int. pos. control[1]	515	515	430	430	430	430	515	430
5'-primer[2]	13(126) 5' -Agg 3'	13(126) 5' -Agg 3'	13(126) 5' -Agg 3'	13(126) 5' -Agg 3'	13(126) 5' -Agg 3'	13(126) 5' -Agg 3'	27(167) 5' -CCC 3'	13(126) 5' -Agg 3'
3'-primer(s)[3]	86(344) 5' -CAC 3'	67(286) 5' -gAg 3'	67(286) 5' -gAA 3'	72(301) 5' -ggC 3'	74(307) 5' -CAg 3'	67(286) 5' -gAT 3'	67(286) 5' -gAT 3'	37(197) 5' -CgT 3'
			67(286) 5' -gAA 3'			67(286) 5' -gAT 3'	67(286) 5' -gAT 3'	
Well No.	1	2	3	4	5	6	7	8
DRB1 allele[4]								
*16:01:01-16:01:02	1		3					
*16:02:01-16:02:02	1	2						
*16:03	1		3	4				
*16:04	1		3		5			
*16:05:01-16:05:02	1					6		
*16:07	1					6	7	
*16:08	1		3					8
*16:09	1		3					
*16:10	1	2						
*16:11	1	2						
*16:12								
*16:13N	1		3					
*16:14	1	2						
*16:15			3					
*16:16	1	2						
*16:17	1	2						
*16:18	1	2			5			
*01:23, 04:53, 12:11, 12:21								
*11:01:03, 11:01:10-11:01:11, 11:19:02								
Well No.	1	2	3	4	5	6	7	8

INTERPRETATION TABLE

DRB1*16 SSP subtyping

Amplification patterns of the DRB1*16:01 to 16:18 alleles

Well								
9	10	11	12	13	14	15	16	
140	115	215	215	155	175	80	85	Length of spec. PCR product
430	430	430	515	430	430	430	430	Length of int. pos. control[1]
13(126) 5' -Agg 3'	47(227) 5' -gTT 3'	14(127) 5' -ggA 3'	13(126) 5' -AAg 3' 16(133) 5' -gTA 3'	13(126) 5' -Agg 3'	13(126) 5' -Agg 3'	72(303) 5' -CgC 3'	58(261) 5' -gAg 3'	5'-primer[2]
47(227) 5' -ggA 3'	72(303) 5' -gCg 3'	72(303) 5' -gCg 3'	72(303) 5' -gCg 3'	52(241) 5' -CTA 3'	57(258) 5' -gCT 3'	86(344) 5' -CCA 3'	72(303) 5' -gCg 3'	3'-primer(s)[3]
9	10	11	12	13	14	15	16	Well No.
								DRB1 allele[4]
								*16:01:01-16:01:02
								*16:02:01-16:02:02
								*16:03
								*16:04
								*16:05:01-16:05:02
								*16:07
								*16:08
9	10							*16:09
9	10							*16:10
		11						*16:11
			12					*16:12
				13				*16:13N
					14			*16:14
						15		*16:15
							16	*16:16
			12					*16:17
								*16:18
						15		*01:23, 04:53, 12:11, 12:21
	10						16	*11:01:03, 11:01:10-11:01:11, 11:19:02
9	10	11	12	13	14	15	16	Well No.

Length of spec.	**260**	**200**	**200**	**215**	**220**	**200**	**160**	**110**
PCR product								
Well No.	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
***11:04:07, 12:04**								
***12:01:01, 12:01:03-12:02:03, 12:02:05-12:03:02, 12:05-12:06, 12:08-12:10, 12:12-12:15, 12:17-12:20, 12:23-12:26, 13:77**								
***12:07, 13:02:02**								
***15:01:01:01-15:01:12, 15:03:01:01-15:06, 15:12-15:13, 15:16-15:18, 15:20, 15:22-15:25, 15:32-15:33, 15:35-15:37, 15:40-15:43, 15:45-15:46, 15:49, 15:51-15:52**								
***15:02:01-15:02:08, 15:08, 15:14-15:15, 15:19, 15:26-15:27, 15:29-15:31, 15:38-15:39, 15:44, 15:47**	**1**							
***15:10**						**6**		
***15:11, 15:34**	**1**							
***15:21**					**5**	**6**		
***15:50N**								
DRB5*01:13								
DRB1 allele[4]								
Well No.	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**

[1]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 430 base pairs, for most wells, or a band of 515 base pairs, for some wells.
Well number 1 contains the primer pair giving rise to the longer, 515 bp, internal positive control band in order to help in the correct orientation of the DRB1*16 subtyping.
In addition, wells number 2, 7 and 12 contain the primer pair giving rise to the longer, 515 bp, internal positive control band in order to allow kit identification.

140	115	215	215	155	175	80	85	Length of spec. PCR product
9	10	11	12	13	14	15	16	Well No.
	10					15	16	*11:04:07, 12:04
	10					15		*12:01:01, 12:01:03-12:02:03, 12:02:05-12:03:02, 12:05-12:06, 12:08-12:10, 12:12-12:15, 12:17-12:20, 12:23-12:26, 13:77
	10							*12:07, 13:02:02
9								*15:01:01:01-15:01:12, 15:03:01:01-15:06, 15:12-15:13, 15:16-15:18, 15:20, 15:22-15:25, 15:32-15:33, 15:35-15:37, 15:40-15:43, 15:45-15:46, 15:49, 15:51-15:52
9								*15:02:01-15:02:08, 15:08, 15:14-15:15, 15:19, 15:26-15:27, 15:29-15:31, 15:38-15:39, 15:44, 15:47
9								*15:10
								*15:11, 15:34
9								*15:21
9	10							*15:50N
							16	*DRB5*01:13*
								DRB1 allele[4]
9	10	11	12	13	14	15	16	Well No.

[2]The codon, and in parenthesis the nucleotide, in the 2nd exon, matching the specificity-determining 3'-end of the primer is given. Codon and 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.
[3]The codon, and in parenthesis the nucleotide, in the 2nd exon, matching the specificity-determining 3'-end of the primer is given. Codon and 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.
[4]The DRB1*1606 allele has been shown to be identical to DRB1*16:05:01.

CELL LINE VALIDATION SHEET

DRB1*16 SSP subtyping kit

					Well															
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				Prod. No.:	201184301	201184302	201184303	201184304	201184305	201184306	201184307	201184308	201184309	201184310	201184311	201184312	201184313	201184314	201184315	201184316
	IHWC cell line		DRB1																	
1	9001	SA	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*15:02	*04:05	+	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
3	9011	E4181324	*15:02		+	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
4	9275	GU373	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*16:01		+	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*04:07	*08:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020	QBL	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*04:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*09:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*11:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*03:01	*13:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257	32367	*09:01	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*12:01		-	-	-	-	-	-	-	-	-	+	-	-	-	-	+	-
20	9059	SLE005	*13:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*13:02	*14:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*08:03	*14:14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035	JBUSH	*11:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*04:05	*10:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*04:16	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*03:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*13:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*04:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*11:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*04:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*04:03	*04:06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*13:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*03:01	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*07:01	*09:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*13:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*08:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*09:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*14:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*15:01		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
47	9045	TUBO	*11:04	*12:01	-	-	-	-	-	-	-	-	-	+	-	-	-	-	+	-
48	9303	TER-ND	*01:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CERTIFICATE OF ANALYSIS

Olerup SSP® DRB1*16 SSP

Product number: **101.126-12u – without *Taq* polymerase**
Lot number: **02M**
Expiry date: **2013-October-01**
Number of tests: **12**
Number of wells per test: **16**

Well specifications:

Well No.	Production No.	Well No.	Production No.
1	2011-843-01	9	2011-843-09
2	2011-843-02	10	2011-843-10
3	2011-843-03	11	2011-843-11
4	2011-843-04	12	2011-843-12
5	2011-843-05	13	2011-843-13
6	2011-843-06	14	2011-843-14
7	2011-843-07	15	2011-843-15
8	2011-843-08	16	2011-843-16

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 4, 6 to 8, 11 to 14 and 16 were available. The specificities of the primers in primer solutions 6, 8 and 16 were tested by separately adding one additional 5'-primer, respectively one additional 3'-primer. In primer solutions 4, 13 and 14 it was only possible to test the 5'-primers, the 3'-primers were not possible to test. In primer solution 7, 11 and 12 it was only possible to test the 3'-primers, the 5'-primers were not possible to test. In primer solution 3, one 3'-primer was not possible to test.

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

Date of approval: 2011-April-18

Approved by:

Quality Control, Supervisor

Declaration of Conformity

Product name: *Olerup* SSP® DRB1*16
Product number: 101.126-12u
Lot number: 02M

Intended use: DRB1*16 high resolution histocompatibility testing

Manufacturer: *Olerup* SSP AB
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SE-133 33 Saltsjöbaden, Sweden
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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
2011-April-18

Olle Olerup
Managing Director

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