**⊙**LERUPSSP<sup>®</sup>
DRB1\*09 Product Insert Page 1 of 12

**101.120-06 – including** *Taq* **polymerase**, IFU-01 **101.120-06u – without** *Taq* **polymerase**, IFU-02

Visit <a href="www.olerup-ssp.com">www.olerup-ssp.com</a> for "Instructions for Use" (IFU)

Lot No.: 1D2 Lot-specific information

Olerup SSP® DRB1\*09

Product number: 101.120-06 – including *Taq* polymerase

101.120-06u - without *Taq* polymerase

Lot number: 1D2

Expiry date: 2018-June-01

Number of tests: 6
Number of wells per test: 11+1

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. 1D2.

Complete product documentation consists of generic Instructions for Use (IFU), lot specific Product Insert, Worksheet and Certificate.

# CHANGES COMPARED TO THE PREVIOUS OLERUP SSP® DRB1\*09 LOT (22X)

The DRB1\*09 kit is updated to enable separation of:

- Confirmed DRB1\*09 alleles as listed in the IMGT/HLA database<sup>1</sup>
- Polymorphisms in exons outside of the region encoding the peptide binding domain
- Null and Alternatively expressed alleles

A well containing Negative Control primer pairs has been added.

The format of the Product Insert and Worksheet have been changed.

The DRB1\*09 primer set, specificity and interpretation tables have been updated for the DRB alleles described since the previous *Olerup* SSP® DRB1\*09 lot was made (Lot No. 22X). The kit design is based on IMGT/HLA database 3.21.1.

**CE** 

<sup>&</sup>lt;sup>1</sup>As described in section Uniquely Identified Alleles.

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**101.120-06 – including** *Taq* **polymerase**, IFU-01 **101.120-06u – without** *Taq* **polymerase**, IFU-02

Visit <a href="www.olerup-ssp.com">www.olerup-ssp.com</a> for "Instructions for Use" (IFU)

Lot No.: 1D2 Lot-specific information

As of lot series V, the Specificity Table is included in the lot-specific Product Insert, and the Interpretation Table is included in the Worksheet.

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

Well	5'-primer	3'-primer	rationale
12	-	-	Updated negative control.

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Lot No.: 1D2 Lot-specific information

Well **12** contains Negative Control primer pairs, that will amplify more than 95% of the Olerup SSP<sup>®</sup> HLA Class I, DRB, DQB1, DPB1 and DQA1 amplicons as well as all the amplicons generated by the control primer pairs matching the human growth hormone gene.

HLA-specific PCR product sizes range from 75 to 200 base pairs. The PCR product generated by the positive control primer pair is 430 base pairs.

Length of PCR	105	200	105	80	75	80	85
product							
5'-primer <sup>1</sup>	164	340	440	45	45	43	36
-	5'-CAC3'	<sup>5'</sup> -Agg <sup>3'</sup>	<sup>5'</sup> -TTA3'	<sup>5</sup> '-Tgg <sup>3</sup> '	<sup>5</sup> '-Tgg <sup>3</sup> '	<sup>5'</sup> -Tgg <sup>3'</sup>	5'-TAC3'
							36
							<sup>5'</sup> -TAT <sup>3'</sup>
3'-primer <sup>2</sup>	231	2 <sup>nd</sup> I	507	59	58	57	47
•	<sup>5</sup> '-TgC <sup>3</sup> '	<sup>5'</sup> -AAA <sup>3'</sup>	<sup>5'</sup> -TTg <sup>3'</sup>	5'-CTC3'	<sup>5'</sup> -ggC <sup>3'</sup>	5'-CTC3'	5'-ACA3'
							48
							<sup>5'</sup> -gCA <sup>3'</sup>
							48
							<sup>5'</sup> -gCC <sup>3'</sup>
							52
							<sup>5'</sup> -TgT <sup>3'</sup>
<b>A</b> *	+	+	+				
B*	+	+	+				
C*	+	+	+				
DRB1				+	+		
DRB3				+	+		
DRB5				+			
DQB1					+		
DPB1						+	
DQA1							+

<sup>&</sup>lt;sup>1</sup>The nucleotide position for HLA class I genes and the codon for HLA class II genes, in the 2<sup>nd</sup> or 3<sup>rd</sup> exon, matching the specificity-determining 3'-end of the primer is given. Nucleotide and codonnumbering as on the <a href="https://www.ebi.ac.uk/imgt/hla">www.ebi.ac.uk/imgt/hla</a> web site. The sequence of the 3 terminal nucleotides of the primer is given.

<sup>&</sup>lt;sup>2</sup>The nucleotide position for HLA class I genes and the codon for HLA class II genes, in the 2<sup>nd</sup> or 3<sup>rd</sup> exon or the 2<sup>nd</sup> intron, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Nucleotide and codon numbering as on the <a href="https://www.ebi.ac.uk/imgt/hla">www.ebi.ac.uk/imgt/hla</a> web site. The sequence of the 3 terminal nucleotides of the primer is given.

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Lot No.: 1D2 Lot-specific information

## PRODUCT DESCRIPTION

## DRB1\*09 SSP subtyping

#### CONTENT

The primer set contains 5'- and 3'-primers for identifying the DRB1\*09:01 to DRB1\*09:26 alleles.

#### PLATE LAYOUT

Each test consists of 12 PCR reactions in a 16 well PCR plate.

Wells 13 to 16 are empty.

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

The 16 well PCR plate is marked with 'DRB1\*09' in silver/gray ink.

Well No. 1 is marked with the Lot No. '1D2'.

Wells 1 to 11 – DRB1\*09 high resolution primers.

Well 12 – Negative Control (NC).

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

Due to the sharing of sequence motifs between DRB1 alleles, non-DRB1\*09 alleles will be amplified by primer mixes 5, 6, 8 and 11. In addition, DRB5 alleles will be amplified by primer mix 11.

For further details see Specificity Table.

#### UNIQUELY IDENTIFIED ALLELES

All the DRB1\*09 alleles, i.e. **DRB1\*09:01 to DRB1\*09:26**, recognized by the HLA Nomenclature Committee in August 2015<sup>1,2</sup> will be amplified by the primers in the DRB1\*09 subtyping kit.

The DRB1\*09 kit enables separation of the confirmed DRB1\*09 alleles as listed in the IMGT/HLA database. An HLA allele is listed as confirmed by IMGT/HLA if it has been sequenced by more than a single laboratory or from multiple sources. Current allele confirmation status for DRB1\*09 alleles is listed below.

The DRB1\*09 kit also enables identification of polymorphisms in exons outside of the region encoding the peptide binding domain and of null and alternatively expressed alleles.



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Lot No.: 1D2 Lot-specific information

The following DRB1\*09 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix
DRB1*09:03, 09:09, 09:13,	4
09:15 09:17-09:18	

The DRB1\*09 SSP subtyping kit cannot separate the silent mutations DRB1\*09:01:02-DRB1\*09:01:11 or the DRB1\*09:02:01-DRB1\*09:02:02 alleles.

### **ALLELE CONFIRMATION STATUS**

Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>
DRB1*09:01:02	Confirmed	DRB1*09:11	Unconfirmed
DRB1*09:01:03	Unconfirmed	DRB1*09:12	Unconfirmed
DRB1*09:01:04	Unconfirmed	DRB1*09:13	Unconfirmed
DRB1*09:01:05	Unconfirmed	DRB1*09:14	Unconfirmed
DRB1*09:01:06	Confirmed	DRB1*09:15	Unconfirmed
DRB1*09:01:07	Unconfirmed	DRB1*09:16	Unconfirmed
DRB1*09:01:08	Unconfirmed	DRB1*09:17	Unconfirmed
DRB1*09:01:09	Unconfirmed	DRB1*09:18	Unconfirmed
DRB1*09:01:10	Confirmed	DRB1*09:19	Unconfirmed
DRB1*09:01:11	Unconfirmed	DRB1*09:20	Unconfirmed
DRB1*09:02:01	Unconfirmed	DRB1*09:21	Unconfirmed
DRB1*09:02:02	Unconfirmed	DRB1*09:22	Unconfirmed
DRB1*09:03	Unconfirmed	DRB1*09:23	Confirmed
DRB1*09:04	Confirmed	DRB1*09:24	Unconfirmed
DRB1*09:05	Unconfirmed	DRB1*09:26	Unconfirmed
DRB1*09:06	Confirmed		
DRB1*09:07	Unconfirmed		
DRB1*09:08	Unconfirmed		
DRB1*09:09	Unconfirmed		
DRB1*09:10	Unconfirmed		

<sup>&</sup>lt;sup>1</sup>Allele status "confirmed" or "unconfirmed" as listed on the IMGT/HLA web page 2015-August-11, release 3.21.1, www.ebi.ac.uk/imgt/hla.

#### RESOLUTION IN HOMO- AND HETEROZYGOTES

Results file with resolution in DRB1\*09 homo- and heterozygotes is available upon request.



<sup>&</sup>lt;sup>1</sup>DRB alleles listed on the IMGT/HLA web page 2015-August-11, release 3.21.1, www.ebi.ac.uk/imgt/hla.

Alleles that have been deleted from or renamed in the official WHO HLA Nomenclature up to and including the last IMGT/HLA database release can be retrieved from web page http://hla.alleles.org/alleles/deleted.html.

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Lot No.: 1D2

**OLERUPSSP®** 

**Lot-specific information** 

## SPECIFICITY TABLE

## DRB1\*09 SSP subtyping

Specificities and sizes of the PCR products of the 11+1 primer mixes used for DRB1\*09 SSP subtyping

Primer Mix	Size of spec. PCR product <sup>1</sup>	Size of control band <sup>2</sup>	Amplified DRB1*09 alleles <sup>3</sup>	Other amplified DRB1 alleles <sup>4</sup>
1	250 bp	515 bp	*09:01:02-09:04, 09:06, 09:08-09:15, 09:17-09:19, 09:21-09:24, 09:26	
2	135 bp	430 bp	*09:01:02-09:01:11, 09:03- 09:07, 09:09-09:22, 09:26	
3	140 bp	430 bp	*09:02:01-09:02:02	
4 <sup>5,6,7</sup>	100 bp 130 bp 210 bp 245 bp 275 bp	430 bp	*09:17 *09:13 *09:03, 09:18 *09:15-09:16 *09:09	
5	185 bp 215 bp	430 bp	*09:08 *09:04	*01:65
<b>6</b> <sup>5</sup>	105 bp 150 bp 250 bp	430 bp	*09:10 *09:11, 09:14 *09:05	*01:65
7	220 bp	430 bp	*09:06	
8	150 bp 180 bp	430 bp	*09:19 *09:07, 09:12, 09:20	*07:52
•	120 bp	E4E bo	*00.22	
9	130 bp	515 bp	*09:22	
10 <sup>5,7</sup>	75 bp	515 bp	*09:21	
11	195 bp	430 bp	*09:23	*04:90, 04:155, 04:167, 07:50, <b>DRB5*01:12,</b> <b>DRB5*01:15</b>
12 <sup>8</sup>			Negative Control	

<sup>&</sup>lt;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 DRB1\*09 SSP typings.

When the primers in a primer mix can give rise to HLA-specific PCR products of more than one length this is indicated if the size difference is more than 20 base pairs. Size differences of 20 base pairs or less are not given. For high resolution SSP kits, the alleles listed are specified according to amplicon length.

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



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**101.120-06 – including** *Taq* **polymerase**, IFU-01 **101.120-06u – without** *Taq* **polymerase**, IFU-02

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Lot No.: 1D2 Lot-specific information

reactions, working at elevated room temperature or using thermal cyclers that are not preheated.

<sup>2</sup>The internal positive control primer pairs amplify segments of the human growth hormone gene. The internal positive control bands are 430 or 515 base pairs respectively, well distribution as outlined in the table. Well number 1 contains the longer, 515 bp, internal positive control band. The well distribution of the internal controls can help in orientation of the kit on gel photo, as well as allow for kit identification. In the presence of a specific amplification the intensity of the control band often decreases.

<sup>3</sup>For several DRB1 alleles 1<sup>st</sup> and/or 3<sup>rd</sup> exon(s) and beyond, as well as intron 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. Assumption is made that unknown sequences in these regions are conserved within allelic groups.

<sup>4</sup>Due to the sharing of sequence motifs between DRB1 alleles, non-DRB1\*09 alleles will be amplified by primer mix 5, 6, 8 and 11. In addition, DRB5 alleles will be amplified by primer mix 11.

<sup>5</sup>HLA-specific PCR products shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR products.

<sup>6</sup>Primer mix 4 has a tendency to giving rise to primer oligomer formation.

<sup>7</sup>Primer mixes 4 and 10 may have tendencies of unspecific amplifications.

<sup>8</sup>Primer mix 12 contains a negative control, which will amplify more than 95% of HLA amplicons as well as the amplicons generated by the control primer pairs matching the human growth hormone gene. HLA-specific PCR product sizes range from 75 to 200 base pairs and the PCR product generated by the HGH positive control primer pair is 430 base pairs.

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**101.120-06 – including** *Taq* **polymerase**, IFU-01 **101.120-06u – without** *Taq* **polymerase**, IFU-02

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Lot No.: 1D2 Lot-specific information

## PRIMER SPECIFICATION

Well No.	1	2	3	4	5	6	7	8	9	10	11
Length of spec.	250	135	140	100	185	105	220	150	130	75	195
PCR product				130	215	150		180			
				210		250					
				245							
				275							
Length of int.	515	430	430	430	430	430	430	430	515	515	430
pos. control <sup>1</sup>											
5'-primer(s) <sup>2</sup>	8(112)	26(165)	26(165)	8(112)	8(112)	8(112)	26(165)	8(112)	8(112)	196(674)	26(165)
. ,	<sup>5'</sup> -TgA <sup>3'</sup>									5' -ACg 3'	
	_							12(123)			
								5' -AAC 3'			
								21(149)			
								<sup>5'</sup> -gAT <sup>3'</sup>			
3'-primer(s) <sup>3</sup>	77(319)	57(257)	60(266)	28(172)	56(256)	30(176)	86(344)	57(257)	39(203)	206(706)	77(319)
. ,										5' -CAC 3'	
		58(261)			66(286)						
		5' -TCA 3'			<sup>5'</sup> -gAg <sup>3'</sup>						
		58(261)		63(276)		47(229)					
		5' -TCC 3'		<sup>5'</sup> -TgT <sup>3'</sup>		5' -CCC 3'					
				66(286)		77(319)					
				5' -gAA 3'		<sup>5'</sup> -gTA <sup>3'</sup>					
				75(311)							
				5' -CCC 3'							
				77(319)							
				5' -CAg 3'							
				87(348)							
				5' -CAT 3'							
Well No.	1	2	3	4	5	6	7	8	9	10	11

<sup>&</sup>lt;sup>1</sup>The internal positive control primer pairs amplify segments of the human growth hormone gene. The internal positive control bands are 430 or 515 base pairs respectively, well distribution as outlined in the table. Well number 1 contains the longer, 515 bp, internal positive control band. The well distribution of the internal controls can help in orientation of the kit on gel photo, as well as allow for kit identification. In the presence of a specific amplification the intensity of the control band often decreases.

<sup>&</sup>lt;sup>2</sup>The nucleotide position matching the specificity-determining 3'-end of the primer is given. Nucleotide numbering as on the <a href="www.ebi.ac.uk/imgt/hla">www.ebi.ac.uk/imgt/hla</a> web site. The sequence of the 3 terminal nucleotides of the primer is given.

<sup>&</sup>lt;sup>3</sup>The nucleotide position matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Nucleotide numbering as on the <a href="www.ebi.ac.uk/imgt/hla">www.ebi.ac.uk/imgt/hla</a> web site. The sequence of the 3 terminal nucleotides of the primer is given.



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Lot No.: 1D2 Lot-specific information

CELL LINE VALIDATION SHEET															
		DRE	31*09 S	SSP su	bty	/pi	ng	kit	2						
									V	۷el					
					1	2	3	4	5	6	7	8	9	10	11
				Production No.	201559601	201559602	201559603	201559604	201559605	201559606	201559607	201559608	201559609	201559610	201559611
	IHW	C cell line <sup>1</sup>	DI	RB1	Ť	<u> </u>	Ť	Ť	Ť	Ť	Ť	Ť		Ť	Ť
1	9001		*01:01	VD1	-	-	-	-	_	_	-	-	_	_	_
2		LK707	*15:02	*04:05		-	-		-	-			-	-	_
3		E4181324	*15:02	04.00									-		-
4		GU373	*03:01			-			-	-			-		_
5		KAS011	*16:01			-	-	-	-	-			-		-
6	9353		*04:07	*08:03	-	-	-	-	-	-	-		-	-	-
7	9020		*03:01	55.55	-	-	-	-	-	-	-	-	_	-	-
8	9025		*04:01		-	-	-	-	-	-	-	-	-	-	-
9		YAR	*04:02		-	-	-	-	-	-	-	-	-	-	-
10		LKT3	*04:05		-	-	-	-	-	-	-	-	-	-	-
11		PITOUT	*07:01		-	-	-	-	-	-	-	-	-	-	-
12	9052		*07:01		-	-	-	-	-	-	-	-	-	-	-
13		JESTHOM	*01:01		-	-	-	-	-	-	-	-	-	-	-
14		OLGA	*08:02		-	-	-	-	-	-	-	-	-	-	-
15	9075		*09:01		+	+	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*11:01		-	-	-	-	-	-	-	-	-	-	-
17		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	*14:54	-	-	-	-	-	-	-	-	-	-	-
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		Ŀ	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*03:01		-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*13:03		-	-	-	-	-	-	-	-	-	-	-
33		MT14B	*04:04		-	-	-	-	-	-	-	-	-	-	-
34	9104		*11:01		-	-	-	-	-	-	-	Ŀ	-	-	-
35		SSTO	*04:03		-	-	-	-	-	-	-	-	-	-	-
36		KT17	*04:03	*04:06	•	-	-	-	-	-	-	-	-	-	-
37		HHKB	*13:01		-	-	-	-	-	-	-	-	-	-	-
38	9099		*14:02		-	-	-	-	-	-	-	-	-	-	-
39	9315		*03:01	*04:01	•	-	-	-	-	-	-	-	-	-	-
40		WHONP199	*07:01	*09:01	+	+	-	-	-	-	-	-	-	-	-
41		H0301	*13:02		•	-	-	-	-	-	-	•	-	-	-
42		TAB089	*08:03		•	-	-	-	-	-	-	-	-	-	-
43		T7526	*09:01		+	+	-	-	-	-	-	-	-	-	-
44	9057		*14:01		-	-	-	-	-	-	-	-	-	-	-
45		SHJO	*07:01		-	-	-	-	-	-	-	-	-	-	-
46		SCHU	*15:01		•	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*11:04	*12:01	-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*01:03		Ŀ		-	_	-	-	Ŀ	Ŀ	_	_	Ŀ

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101.120-06 - including Taq polymerase, IFU-01 101.120-06u - without Tag polymerase, IFU-02

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Lot No.: 1D2 Lot-specific information

<sup>1</sup>The provided cell line HLA specificities are retrieved from the <a href="http://www.ihwg.org/hla">http://www.ihwg.org/hla</a> web site. The specificity of an individual cell line may thus be subject to change.

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

DNAs and where applicable, additional cell line DNAs.

No DNAs carrying the allele to be amplified by primer solutions 3 to 11 were available. The specificities of the primers in primer solutions 3 to 8 and 11 were tested by separately adding one additional 5'-primer, respectively one additional 3'-primer.

In primer solution 10 it was only possible to test the 5'-primer, the 3'-primer were not possible to test. In primer solution 9 it was only possible to test the 3'-primers, the 5'-primers were not possible to test. In primer mix 8, two 5'-primers could not be tested, and in primer mixes 4 and 6 six respectively three 3'primers could not be tested. Additional primers in primer solutions 2 were tested by separately adding an additional 5'-primer.



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**101.120-06 – including** *Taq* **polymerase**, IFU-01 **101.120-06u – without** *Taq* **polymerase**, IFU-02

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Lot No.: 1D2 Lot-specific information



**♦LERUPSSP®**DRB1\*09 Product Insert Page 12 of 12

**101.120-06 – including** *Taq* **polymerase**, IFU-01 **101.120-06u – without** *Taq* **polymerase**, IFU-02

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Lot No.: 1D2 Lot-specific information

ADDRESSES:

Manufacturer:

Olerup SSP AB, Franzengatan 5, SE-112 51 Stockholm, Sweden.

**Tel:** +46-8-717 88 27 **Fax:** +46-8-717 88 18

*E-mail:* info-ssp@olerup.com

Web page: http://www.olerup-ssp.com

Distributed by:

Olerup GmbH, Löwengasse 47 / 6, AT-1030 Vienna, Austria.

**Tel:** +43-1-710 15 00 **Fax:** +43-1-710 15 00 10

**E-mail:** support-at@olerup.com **Web page:** http://www.olerup.com

Olerup Inc., 901 S. Bolmar St., Suite R, West Chester, PA 19382

**Tel:** 1-877-OLERUP1 **Fax:** 610-344-7989

E-mail: info.us@olerup.com
Web page: http://www.olerup.com

For information on Olerup SSP distributors worldwide, contact Olerup GmbH.