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Lot No.: Y45 www.olerup.com

Olerup SSP[™] DRB1*09

Product number: 101.120-06 – licensed for PCR

101.120-06u - not licensed for PCR

Lot number: Y45

Expiry date: 2009-September-01

Number of tests: 6 Number of tubes per test: 7

Storage - pre-aliquoted primers: dark at -20°C

- PCR Master Mix: -20°C

This Product Description is only valid for Lot No. Y45.

CHANGES COMPARED TO THE PREVIOUS OLERUP SSPTM DRB1*09 Lot

The DRB1*09 specificity and interpretation tables are unchanged compared to the previous *Olerup* SSPTM DRB1*09 lot **(Lot No. V79)**.

One tube has been added to the DRB1*09 kit, well **7**.

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

Tube	5'-primer	3'-primer	rationale
7	New	New	New primer pair for the DRB1*0906 allele.

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PRODUCT DESCRIPTION

DRB1*09 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the DRB1*0901 to DRB1*0906 alleles.

The primer solutions are pre-aliquoted into 0.2 ml PCR tubes. Each tube in the set contains a dried primer solution consisting of a specific primer mix, i.e. allele- and group-specific primers as well as a control primer pair matching non-allelic sequences.

PCR Master Mix complete with Tag, Tag polymerase, nucleotides, buffer, glycerol and cresol red, as well as PCR lids are included in the licensed kit.

PCR Master Mix without Taq, nucleotides, buffer, glycerol and cresol red, as well as PCR lids are included in the unlicensed kit.

7 PCR reactions with a reaction volume of 10 μl are performed per sample.

Note: The pellets in the tubes may vary in form and colour. This does not affect the performance of the product.

PLATE LAYOUT

Each test consists of 7 PCR reactions in an 8 well PCR plate. Well 8 is empty.

1 2 3	4	5 6	7	empty
-------	---	-----	---	-------

The 8 well PCR plate is marked with 'DRB1*09'.

Tube No. 1 is marked with the Lot No. 'Y45'.

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

Please note: When removing each 8 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

Only the DRB1*09 alleles will be amplified by the DRB1*09 subtyping kit. Thus, the interpretation of DRB1*09 subtypings is not influenced by other groups of DRB1 alleles or other DRB genes.

UNIQUELY IDENTIFIED ALLELES

All the DRB1*09 alleles, i.e. DRB1*0901 to DRB1*0906, recognized by the HLA Nomenclature Committee in October 2007⁶ will give rise to unique amplification patterns by the primers in the DRB1*09 subtyping kit.

The DRB1*09 SSP subtyping kit cannot separate the DRB1*090102 and DRB1*090103 alleles.

¹Nomenclature for factors of the HLA system, 1998. Tissue Antigens 1999: 53: 407-446. DRB alleles listed on the IMGT/HLA web page 2007-October-05, release 2.19.0, www.ebi.ac.uk/imgt/hla.

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RESOLUTION IN HOMO- AND HETEROZYGOTES

The 6 DRB1*09 alleles can be combined in 21 homozygous and heterozygous combinations. Six of these genotypes do not give rise to unique amplification patterns.

++-+-- 0901,0903 = 0903,0903 ++--+- 0901,0904 = 0904,0904 ++---+ 0901,0906 = 0906,0906



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LICENSES

101.120-06 - licensed for PCR.

Notice to purchaser: Limited License.

The purchase price of this product includes limited, non-transferable rights under U.S. Patents 4,683,202, 4,683,195 and 4,965,188 and their foreign counterparts, owned by Roche Molecular Systems, Inc. and F. Hoffman-La Roche Ltd ("Roche"), to use only this amount of the product to practice the Polymerase Chain Reaction ("PCR") Process described in said patents solely for the HLA Typing applications of the purchaser solely for organ or tissue or bone marrow transplantation, and explicitly excludes analysis of forensic evidence or parentage determination. The rights to use this product to perform and to offer commercial service for HLA Typing for organ or tissue transplantation using PCR, including reporting the results of the purchaser's activities for a fee or other commercial consideration, is also hereby granted. Further information on purchasing licenses to practice PCR may be obtained by contacting in the United States, the Director of Licensing at Roche Molecular Systems, inc., 1145 Atlantic Avenue, Alameda, California 94501, and outside the United States, the PCR Licensing Manager, F. Hoffmann-La Roche Ltd, Grenzacherstr. 124, CH-4070 Basel, Switzerland.

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Notice to purchaser: Disclaimer of License.

This product is optimized for use in the Polymerase Chain Reaction ("PCR") Process which is covered by patents owned by Roche Molecular Systems, Inc. and F. Hoffmann-La Roche Ltd ("Roche"). No license under these patents to use the PCR Process is conveyed expressly or by implication to the purchaser of this product. Further information on purchasing licenses to practice PCR may be obtained by contacting in the United States, the Director of Licensing at Roche Molecular Systems, inc., 1145 Atlantic Avenue, Alameda, California 94501.

101.120-06 and 101.120-06u

These products use ARMSTM technology and is sold under license from Zeneca Limited. ARMS is the subject of European Patent No. 0332435, US Patent No. 5595890 and corresponding world-wide patents. ARMS is a trademark of Zeneca Limited.

GUARANTEE

Olerup SSP AB guarantees that the primers in the DRB1*09 subtyping kit have the specificities given in the Specificity and Interpretation Tables of the product insert and in the GenoVision version of the HELMBERG-SCORE™ software.

When stored dark at -20°C, the dried primers are stable for 22 months from the date of manufacture.

When stored at -20° C, the PCR Master Mix complete with Taq and the PCR Master Mix without Taq are stable for 24 months from the date of manufacture. The kit is shipped at ambient temperature.



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PROTOCOL

DNA EXTRACTION

Extracted, highly pure DNA is needed for SSP typings. We recommend isolation of DNA using GenoPrep B200 or GenoPrep B350 cartridges on the GenoMTM-6 robotic workstation (GenoVision Europe *Tel:* +43 1 710 15 00 or GenoVision Inc. USA *Tel:* +1 610 430 88 41; http://www.genovision.com). Using GenoMTM-6-extracted DNA ACD, EDTA and heparinised blood can be used as starting material. Because of its high purity, GenoMTM-6-extracted DNA can be diluted when used in combination with *Olerup* SSPTM products. The recommended DNA concentration is 15 ng/ul.

Alternatively – BUT DO NOT USE HEPARINISED BLOOD WITH THESE METHODS - the DNA can be extracted using trimethylammoniumbromide salts (DTAB/CTAB) or by salting out. Dissolve the extracted DNA in dH₂O.

IMPORTANT:

Optimal DNA concentration using: GenoMTM-6-extracted DNA, 15 ng/μl. DNA extracted by other methods, 30 ng/μl.

Concentration exceeding 50 ng/ μ l will increase the risk for nonspecific amplifications and weak extra bands, especially for HLA Class I high resolution SSP typings.

PCR AMPLIFICATION

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For one DRB1*09 subtyping, add at room temperature in a 0.5 ml tube:

 $9 \times 2 \mu l = 18 \mu l DNA (30 ng/\mu l)$

9 x 3 μ l = 27 μ l PCR Master Mix complete with Taq – mix well before taking your aliquot

 $9 \times 5 \mu I = 45 \mu I dH_2O$

Mix well, dispense 10 μl of the DNA-PCR Master Mix-H₂O mixture into each of the 7 wells of a DRB1*09 subtyping. *Well No. 1 of the 8 well PCR plate is marked with the lot number.* Close the 8 well PCR plate with the provided lids.

101.120-06u - not licensed for PCR

For one DRB1*09 subtyping, add at room temperature in a 0.5 ml tube:

 $9 \times 2 \mu l = 18 \mu l DNA (30 ng/\mu l)$

9 x 3 μ I = 27 μ I PCR Master Mix without Taq – mix well before taking your aliquot

0.7 μl *Taq* polymerase (5 units/μl)

 $9 \times 5 \mu I - 0.7 \mu I = 44.3 \mu I dH₂O$

Mix well, dispense 10 μ l of the DNA-PCR Master Mix-Taq- H_2O mixture into each of the 7 wells of a DRB1*09 subtyping. **Well No. 1 of the 8 well PCR plate is marked with the lot number.** Close the 8 well PCR plate with the provided lids.

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Use a 96 well thermal cycler with a heated lid. The temperature gradient across the heating block should be $< 1^{\circ}$ C.

PCR cycling parameters:

1. 1 cycle	94°C	2 min	denaturation
2. 10 cycles	94°C 65°C	10 sec. 60 sec.	denaturation annealing and extension
3. 20 cycles	94°C 61°C 72°C	10 sec. 50 sec. 30 sec.	denaturation annealing extension

The same PCR cycling parameters are used for all the Olerup SSP kits.

AGAROSE GEL ELECTROPHORESIS

Prepare a 2% (w/v) agarose gel in $0.5 \times TBE$ buffer. Dissolve the agarose by boiling in a microwave oven. Let the gel solution cool to $60^{\circ}C$. Stain the gel prior to casting with ethicium bromide (10 mg/ml), $5 \mu l$ per 100 ml gel solution. For maximal ease of handling use our ethicium bromide dropper bottles (Product No. 103.301-10), 1 drop of ethicium bromide solution per 50-75 ml of gel. <u>Note:</u> Ethicium bromide is a powerful carcinogen.

Load the PCR products, preferably using an 8-channel pipette. Load a DNA size marker (100 base pair ladder, Product No. 103.201-100) in one well per row.

Run the gel in 0.5 x TBE buffer, without re-circulation of the buffer, for 15-20 minutes at 8-10 V/cm.

DOCUMENTATION AND INTERPRETATION

Put the gel on a UV transilluminator and document by photography.

Record the presence and absence of specific PCR products. The relative lengths of the specific PCR products are helpful in the interpretation of the results.

Record the presence and relative lengths of the internal positive control bands. The differently sized control bands will help in the correct orientation of the typing as well as in kit identification.

Lanes without either control band or specific PCR products should be repeated.

Interpret the typings with the *lot-specific Interpretation and Specificity Tables*.

INTERPRETATION SOFTWARE

The interpretation software (Product No. 110.101) can be helpful in the interpretation of the typings.



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PCR MASTER MIXES

The PCR Master Mix complete with *Tag* contains:

Taq polymerase 0.4 unit per 10 μl SSP reaction

nucleotides final concentration of each dNTP is 200 μ M pCR buffer final concentrations: 50 mM KCl, 1.5 mM MgCl₂,

10 mM Tris-HCl pH 8.3, 0.001% w/v gelatin

glycerol final concentration of glycerol is 5%

cresol red final concentration of cresol red is 100 µg/ml

The same PCR Master Mix complete with Taq is used for all the licensed Olerup SSP kits.

The PCR Master Mix without *Taq* contains:

 $\begin{array}{ll} \text{nucleotides} & \text{final concentration of each dNTP is 200 } \mu\text{M} \\ \text{PCR buffer} & \text{final concentrations: 50 mM KCl, 1.5 mM MgCl}_2, \end{array}$

10 mM Tris-HCl pH 8.3, 0.001% w/v gelatin

glycerol final concentration of glycerol is 5%

cresol red final concentration of cresol red is 100 µg/ml

The same PCR Master Mix without Taq is used for all the unlicensed Olerup SSP kits.

The PCR Master Mix complete with *Taq* and the PCR Master Mix without *Taq* can be shipped at ambient temperature.

When stored at -20° C, the PCR Master Mix complete with Taq and the PCR Master Mix without Taq are stable for 24 months from the date of manufacture. Vials with the PCR Master Mixes can be kept at $+4^{\circ}$ C for 4 weeks, but the PCR Master Mixes are then no longer stable for 24 months.

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SPECIFICITY TABLE

DRB1*09 SSP subtyping

Specificities and sizes of the PCR products of the 7 primer mixes used for DRB1*09 SSP subtyping

Primer Mix	Approx. Size of spec. PCR product ¹	Size of control band ²	Amplified DRB1*09 alleles
1	195 bp	515 bp	090102-090103, 0902-0904, 0906
2	130 bp	430 bp	090102-090103, 0903-0906
3	135 bp	430 bp	0902
4	215 bp	430 bp	0903
5	215 bp	430 bp	0904
6	250 bp	430 bp	0905
7	220 bp	430 bp	0906

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 DRB1*09 SSP subtypings.

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 band may sometimes be observed. Such bands can be disregarded and do not influence the interpretation of the SSP typings.

Tube 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*09 subtyping and in order to allow kit identification.

PLEASE NOTE: All the SSP kits, except the B*37, B*41, B*42, B*46, B*47, B*48, B*49, B*50, B*53, B*67, B*78, B*81 and B*82 kits and the Cw*01, Cw*02, Cw*08, Cw*12,Cw*14, Cw*15, Cw*16, Cw*17 and Cw*18 kits, from *Olerup* SSP AB can be uniquely identified by the number of tubes and the kit-specific pattern of the two differently sized control bands.

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



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 430 base pairs, for most tubes, or a band of 515 base pairs, for some tubes.

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INTERPRETATION TABLE								
DRB1*09 SSP subtyping								
Amplification	n patte	erns of	the Di	RB1*09	allele	S		
		Tube						
	1	2	3	4	5	6	7	
Length of spec.	195	130	135	215	215	250	220	
PCR product								
Length of int.	515	430	430	430	430	430	430	
pos. control ¹								
5'-primer ²	26	28	26	25	25	25	26	
	^{5'} -g TA ^{3'}	^{5'} -g CA ^{3'}	^{5'} -g TA ^{3'}	^{5'} -Tg A ^{3'}	^{5'} -Tg A ^{3'}	^{5'} -Tg A ^{3'}	^{5'} -TAT ^{3'}	
3'-primer ³	78	57	57	67	67	78	86	
		^{5'} -C gA ^{3'}					^{5'} -C CA ^{3'}	
Tube No.	1	2	3	4	5	6	7	
DRB1 allele ⁴								
*090102-090103	+	+						
*0902	+		+					
*0903	+	+		+				
*0904	+	+			+			
*0905		+				+		
*0906	+	+					+	
DRB1 allele ⁴	DRB1 allele ⁴							
Tube No.	1	2	3	4	5	6	7	

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 430 base pairs, for most tubes, or a band of 515 base pairs, for some tubes.

Tube 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*09subtyping and in order to allow kit identification.

PLEASE NOTE: All the SSP kits, except the B*37, B*41, B*42, B*46, B*47, B*48, B*49, B*50, B*53, B*67, B*78. B*81 and B*82 kits and the Cw*01, Cw*02, Cw*08, Cw*12,Cw*14, Cw*15, Cw*16, Cw*17 and Cw*18 kits, from *Olerup* SSP AB can be uniquely identified by the number of tubes and the kit-specific pattern of the two differently sized control bands.



²The codon, in the 2nd exon, matching the specificity-determining 3'-end of the primer is given. Codon numbering as in *Tissue Antigens* 1998, **51:II**, 467-507. The sequence of the 3 terminal nucleotides of the primer is given. Empty spaces indicate codon boundaries.

³The codon, in the 2nd exon, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Codon numbering as in *Tissue Antigens* 1998, **51:II**, 467-507. The sequence of the 3 terminal nucleotides of the primer is given. Empty spaces indicate codon boundaries.

⁴The nucleotide sequence of the DRB1*090101 allele has been shown to contain errors and be identical to DRB1*090102.

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CELL LINE VALIDATION SHEET											
DRB1*09 SSP subtyping kit											
							_	<u>ub</u>	<u>e</u>		
					1	2	3	4	5	6	7
				Production No.	200616901	200616902	200616903	200616904	200616905	200616906	200616907
				Pro No.	20	20	8	8	8	20	8
	C	ell line	D	QB1							
1	9001		*0101		-	-	-	-	-	-	-
2		LK707	*1502	*0405	-	-	-	-	-	-	<u> </u>
3		E4181324	*1502		-	-	-	-	-	-	Ŀ
4		GU373	*0301		-	-	-	-	-	-	-
5		KAS011	*1601	*0000	-	-	-	-	-	-	-
6	9353		*0407	*0803	-	-	-	-	-	-	-
8	9020		*0301 *0401	*1602	Ŀ	-	<u> </u>	<u> </u>	-	-	Ë
9	9007		*0401	1002	H	H	Ë	Ë	Ë		÷
10	9107		*0405	-	Η-	H	H	H	H	H	÷
11		PITOUT	*0701		Ė	-	-	 	 	-	-
12	9052		*0701		-	-	-	-	-	-	-
13	9067		*0801		-	-	-	-	-	-	-
14		OLGA	*0802	1	-	-	-	-	-	-	-
15	9075	DKB	*0901		+	+	-	-	-	-	-
16	9037	SWEIG007	*1101		-	-	-	-	-	-	-
17	9008	WILJON	*1501		-	-	-	-	-	-	-
18	9257	32367	*0901	*1101	+	+	-	-	-	-	-
19	9038	BM16	*1201		-	-	-	-	-	-	-
20	9059	SLE005	*1302		-	-	-	-	-	-	-
21	9064	AMALA	*1402		-	-	-	-	-	-	-
22	9056	KOSE	*1302	*1401	-	-	-	-	-	-	-
23	9124	IHL	*0803	*1414	-	-	<u> </u>	<u> </u>	<u> </u>	-	<u> </u>
24		JBUSH	*1101		-	-	-	-	-	-	-
25		IBW9	*0701		-	-	-	-	-	-	<u> </u>
26		WT49	*0301		-	-	-	-	-	-	-
27		CH1007	*0405	*1001	-	-	-	-	-	-	<u> </u>
28		BEL5GB	*0416	*0701	-	-	-	-	-	-	-
29	9050		*0701	-	Ε-	-	<u> </u>	<u> </u>	<u> </u>	-	<u> </u>
30	9021		*0302		<u> </u>	Ŀ	<u> </u>	<u> </u>	<u> </u>	-	-
31	9019	DUCAF	*0301 *1303	-	H-	-	Ė	Ė	-	Ė	Ė
33		MT14B	*0404	-	-	H	Ė	Ė	Ė	H	Ė
34	9104		*1101	-	-	H	H	H	H	H	Ė
35		SSTO	*0403	+	Ε-	-	-	-	-	-	Ė
36		KT17	*0403	*0406	-	-	-	-	-	-	-
37		HHKB	*1301	0.00	-	-	-	-	-	-	-
38	9099		*1402	1	-	-	-	-	-	-	-
39	9315		*0301	*0401	-	-	-	-	-	-	-
40		WHONP199	*0701	*0901	+	+	-	-	-	-	-
41	9055	H0301	*1302		-	-	-	-	-	-	-
42	9066	TAB089	*0803		-	-	-	-	-	-	-
43	9076	T7526	*0901		+	+	-	-	-	-	-
44	9057	TEM	*1401		-	-	-	-	-	-	-
45	9239	SHJO	*0701		-	-	-	-	-	-	-
46	9013	SCHU	*1501		-	-	-	-	-	-	-
47	9045	TUBO	*1104	*1201	-	-	-	-	-	-	-
48	9303	TER-ND	*0103		-	-	_	_	-	-	Ŀ

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CERTIFICATE OF ANALYSIS

Olerup SSP[™] DRB1*09 SSP

Product number: 101.120-06 – licensed for PCR

101.120-06u – not licensed for PCR

Lot number: Y45

Expiry date: 2009-September-01

Number of tests: 6 Number of tubes per test: 7

Tube specifications:

Tube No.	Production No.
1	2006-169-01
2	2006-169-02
3	2006-169-03
4	2006-169-04
5	2006-169-05
6	2006-169-06
7	2006-169-07

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

No DNAs carrying the allele to be amplified by primer solutions 3, 4, 5, 6 and 7 were available. The specificities of the primers in primer solutions 3, 4, 5, 6 and 7 were tested by separately adding one additional 5'-primer, respectively one additional 3'-primer.

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

Date of approval: 2007-December-14

Approved by:

Quality Control, Supervisor



Lot No.: Y45 www.olerup.com

Declaration of Conformity

Product name: Olerup SSP[™] DRB1*09 **Product number:** 101.120-06, 101.120-06u

Lot number: Y45

Intended use: DRB1*09 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 2007-December-14

Olle Olerup Managing Director

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WARRANTY

Olerup SSP AB warrants its products to the original purchaser against defects in materials and workmanship under normal use and application. Olerup SSP AB's sole obligation under this warranty shall be to replace, at no charge, any product that does not meet the performance standards stated on the product specification sheet.

This warranty applies only to products that have been handled and stored in accordance with *Olerup* SSP AB's recommendations, and does not apply to products that have been the subject of alternation, misuse, or abuse.

All claims under this warranty must be directed to *Olerup* SSP AB in writing and must be accompanied by a copy of the purchaser's invoice. This warranty is in lieu of all other warranties, expressed or implied, including the warranties of merchantability and fitness for a particular purpose. In no case shall *Olerup* SSP AB be liable for incidental or consequential damages.

This product may not be reformulated, repacked or resold in any form without the written consent of *Olerup* SSP AB, Hasselstigen 1, SE-133 33 Saltsjöbaden, Sweden.

Handle all samples as if capable of transmitting disease. All work should be performed wearing gloves and appropriate protection.

Olerup SSPTM is a trademark of Olerup SSP AB. PCRTM is a trademark of F. Hoffmann-La Roche Ltd. ARMSTM is a trademark of Zeneca Ltd.



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

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