

Olerup SSP[®]

Olerup SSP[®] HLA-B*47

Prod. No: 101.545-06 – including *Taq* polymerase
101.545-06u – without *Taq* polymerase

Lot No: 13E

Expiry Date: 2010-February-01

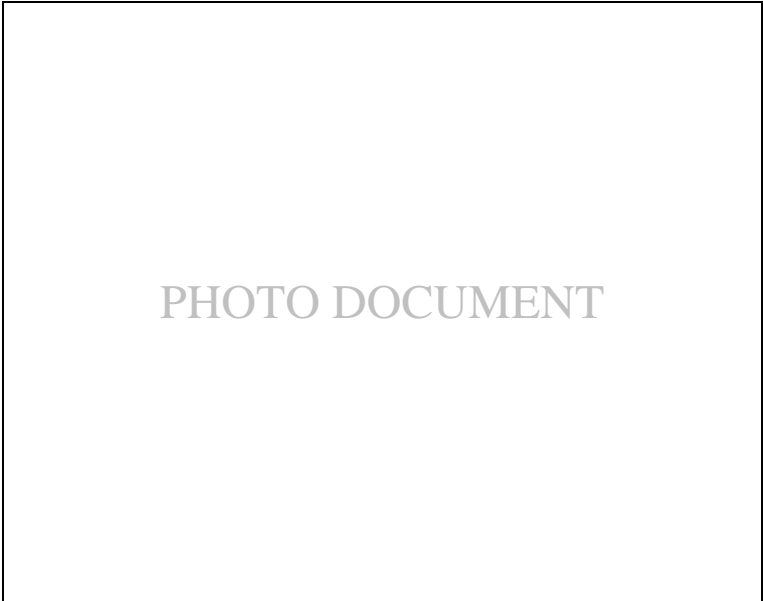
Name: _____ **Sample ID:** _____

DNA Extract Date: _____ **Conc.(ug/ul):** _____

Test Date: _____ **Review Date:** _____

Tested By: _____ **Reviewed By:** _____

Interpretation: _____



Specificities and sizes of the PCR products of the 7 primer mixes used for HLA-B*47 SSP typing.

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-B*47 alleles	Other amplified HLA-B alleles ³
1	135 bp	800 bp	47010101-47010102, 4705	3706
2	150 bp	1070 bp	47010101-47010102, 4703-4705	3706, 4013, 4019, 4047, 44020101-4405, 4407, 4410-4439, 4441-4443, 4445, 4447-4456N, 4458N, 4459, 4901, 4902, 4904, 4905
3	150 bp	1070 bp	4702	1546, 1553, 9506, 3519, 3547, 3563, 400101-4011, 401401-4016, 4018, 4020, 4022N-4040, 4042-4045, 4048-4078, 4080, 4101-4108, 4409, 4446, 4501-4507, 5001, 5002, 5004
4	145	1070 bp	4704	4047, 44020101-4405, 4407, 4410, 4412-4417, 4419N-4424, 4426-4439, 4441-4443, 4445, 4447-4449, 4451-4456N, 4458N, 4459, 4902
5	135 bp	1070 bp	4702, 4703	1546, 1553, 95063519, 3547, 3563, 400101-4011, 401401-4016, 4018, 4020, 4022N-4036, 4038-4040, 4042-4045, 4048-4080, 4101-4108, 4409, 4446, 4501-4507, 5001, 5002, 5004
6	135 bp	1070 bp	47010101-4703	1506, 152701-152702, 1584, 9509, 1827, 8201, 8202
7	235 bp	1070 bp	4704, 4705	2701-270402, 270502-2706, 2708-2710, 2712, 2713, 2716-2718, 2720, 2723, 2726, 2727, 2729, 2731, 2735-2737, 2739, 3702

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*47 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.

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*47 SSP subtyping.

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 non-HLA-B*47 alleles will be amplified by primer mixes 1 to 7.

Well No.	1	2	3	4	5	6	7
HLA-B allele							
*47010101-47010102	1	2				6	
*4702			3		5	6	
*4703		2			5	6	
*4704		2		4			7
*4705	1	2					7
*1506, 152701-152702, 1584, 9509, 1827, 8201, 8202						6	
*1546, 1553, 9506, 3519, 3547, 3563, 400101-4011, 401401-4016, 4018, 4020, 4022N-4036, 4038-4040, 4042-4045, 4048-4078, 4080, 4101-4108, 4409, 4446, 4501-4507, 5001, 5002, 5004			3		5		
*2701-270402, 270502-2706, 2708-2710, 2712, 2713, 2716-2718, 2720, 2723, 2726, 2727, 2729, 2731, 2735-2737, 2739, 3702							7
*3706	1	2					
*4013, 4019, 4411, 4418, 4425, 44450, 4901, 4904, 4905		2					
*4037			3				
*4047, 44020101-4405, 4407, 4410, 4412-4417, 4419N-4424, 4426-4439, 4441-4443, 4445, 4447-4449, 4451-4456N, 4458N, 4459 4902		2		4			
Length of spec. PCR product	135	150	150	145	135	135	235
Well No.	1	2	3	4	5	6	7
Specific Reaction							
1st match: B*							
2nd match: B*							
Control Reaction							
Failed Controls							
False Positive							
False Negative							