

INTERPRETATION TABLE								
HLA-B*49 SSP subtyping								
Amplification patterns of the B*49:01 to B*49:26 alleles								
	Well ⁸							
	1	2	3	4	5	6	7	8
Length of spec.	145	145	115	170	105	160	105	70
PCR product(s)		190	145	205			255	155
		255						
Length of int.								
pos. control ¹	800	800	800	1070	1070	1070	1070	1070
5'-primer ²	206	97	206	141	357	420	357	357
	5' -gAA 3'	5' -TCC 3'	5' -gAA 3'	5' -ATT 3'	5' -Tgg 3'	5' -TTA 3'	5' -Tgg 3'	5' -Tgg 3'
		454	485	420				
		5' -ACA 3'	5' -CAA 3'	5' -TTA 3'				
3'-primer(s) ³	309	246	309	272	420	538	419	387
	5' -ATC 3'	5' -TAT 3'	5' -gTg 3'	5' -Tgg 3'	5' -gCT 3'	5' -CAg 3'	5' -Cgg 3'	5' -TCC 3'
		309	559	583			419	470
		5' -gTg 3'	5' -CAg 3'	5' -gTg 3'			5' -CgA 3'	5' -TCT 3'
		559					572	
		5' -CAg 3'					5' -gCg 3'	
Well No.	1	2	3	4	5	6	7	8
HLA-B allele ⁴								
*49:01:01-49:01:04, 49:23, 49:25	1				5	6		
*49:02		2	3		5	6		
*49:03				4	5	6		
*49:04	1						7	
*49:05	1						7	8
*49:06	1	2			5	6		
*49:07, 49:21 ⁵	1				5	6		
*49:08, 49:16 ⁶	1				5	6		
*49:09	1			4	5	6		
*49:10, 49:24	1				5	6		
*49:11	1				5	6		
*49:12	1				5	6		
*49:13-49:14 ⁷	1				5	6		
*49:15	1				5	6		
*49:17	1				5	6		
*49:18	1							
*49:19N	1				5	6		8
Well No.	1	2	3	4	5	6	7	8

Length of spec.	145	145	115	170	105	160	105	70
PCR product(s)		190	145	205			255	155
		255						
Well No.	1	2	3	4	5	6	7	8
*49:20	1				5	6	7	
*49:22	1		3		5	6		
*49:26		2			5	6		

*07:78, 13:31, 13:41, 54:16, 54:20, 55:09, 55:21, 55:46, 55:52, 55:56, 56:01:05, 56:13					5			8
*07:84, 08:09, 08:84, 13:35, 13:59, 13:62, 15:83, 27:14, 27:81, 40:06:01:01-40:06:07, 40:44, 40:53, 40:70, 40:75, 40:83, 40:93, 40:95, 40:103, 40:127, 40:131, 40:148, 40:161-40:162, 40:165, 40:177, 40:190, 40:230, 41:01, 41:05-41:07, 41:09, 41:12, 41:14, 41:16-41:17, 41:20-41:22, 41:25-41:26, 42:04, 50:20, 51:01:01-51:01:18, 51:01:20-51:03, 51:05, 51:07:02, 51:09:01-51:12, 51:14, 51:16, 51:18-51:19, 51:21-51:22, 51:24:01-51:24:04, 51:26-51:35, 51:38-51:41N, 51:43, 51:48-51:55, 51:57-51:58, 51:60-51:61:02, 51:65-51:80, 51:82-51:91, 51:93, 51:95-51:96, 51:98N-51:105, 51:107, 51:109-51:111, 51:113-51:125, 51:127-51:129, 51:131-51:134, 51:136-51:138, 51:140, 51:142-51:147, 51:149N-51:152, 52:01:01:01-52:01:01:02, 52:01:03, 52:01:05-52:01:08, 52:01:10-52:01:17, 52:04-52:08, 52:10:01-52:13, 52:16-52:18, 52:20, 52:22-52:24, 52:26-52:31, 54:04, 54:11, 55:17, 55:20, 55:28, 56:05:01-56:06, 56:15, 56:21, 58:08:01-58:08:02, 59:02, 78:01:01-78:07								8
*08:03, 08:52, 08:78, 37:34, 38:30, 44:06, 53:22, 57:09, 57:24								
Well No.	1	2	3	4	5	6	7	8
Length of spec.	145	145	115	170	105	160	105	70
PCR product(s)		190	145	205			255	155
		255						
Well No.	1	2	3	4	5	6	7	8
*13:01:01-13:01:06, 13:06-13:07N, 13:11-13:12:02, 13:17, 13:22:01-13:22:02, 13:25, 13:28-13:29, 13:36, 13:39, 13:43, 13:50, 13:52, 13:57, 13:60-13:61, 13:63N-13:64, 15:86, 15:224, 40:48, 40:71, 56:02, 56:04, 56:10						6		

*13:02:01-13:02:05, 13:02:07-13:02:14, 13:03, 13:08Q-13:09, 13:14, 13:19, 13:27, 13:30, 13:32-13:34, 13:37-13:38, 13:40, 13:42, 13:44-13:45, 13:49N, 13:53-13:54, 13:56N, 13:58, 13:65-13:67, 35:60, 46:11, 46:18, 51:15, 54:01:01-54:03, 54:05N, 54:07-54:08N, 54:12-54:13, 54:17-54:19, 54:21-54:28, 55:02:01-55:02:06, 55:07, 55:10, 55:12, 55:16, 55:18-55:19, 55:22, 55:26, 55:30, 55:34-55:35, 55:41, 55:43, 55:47-55:48, 55:50, 56:01:01-56:01:04, 56:07-56:08, 56:14, 56:16-56:17, 56:19N-56:20:02, 56:23-56:24, 56:26-56:29, 56:33, 56:35-56:36, 56:38N-56:39, 59:01:01:01-59:01:01:02, 59:04-59:05					5	6		8
*13:02:06					5	6		
*13:02:15, 13:47, 55:39, 55:42						6		8
*13:04, 13:46, 15:04, 15:16:01-15:16:02, 15:67, 15:95, 15:137, 15:155, 15:222, 15:254, 39:06:01-39:06:02, 39:33-39:34, 39:50, 39:57, 39:62, 39:64, 40:86, 40:159, 46:32, 51:13:01-51:13:02, 51:23, 51:37, 51:63, 51:92, 51:108, 52:14-52:15, 54:14, 55:13, 55:23, 55:32, 55:58, 56:22, 59:03, 73:01-73:02							7	8
*13:15, 56:34				4	5	6		8
Well No.	1	2	3	4	5	6	7	8
Length of spec.	145	145	115	170	105	160	105	70
PCR product(s)		190	145	205			255	155
		255						
Well No.	1	2	3	4	5	6	7	8
*13:16, 13:48, 15:42, 55:01:01-55:01:03, 55:01:05-55:01:06, 55:01:08-55:01:10, 55:03, 55:05, 55:11, 55:15, 55:24-55:25, 55:29, 55:31, 55:33, 55:36, 55:38, 55:40, 55:45, 55:54-55:55N, 55:57, 56:25, 56:30, 56:37					5	6		8
*13:18, 54:10, 55:37					5			8
*13:20, 39:17, 50:12, 50:16-50:17, 55:01:07						6		
*13:23		2				6		
*13:55		2			5	6		8
*15:16:03, 35:37, 45:02, 45:09, 50:09							7	

*15:33, 15:248, 44:03:16, 44:07, 44:49, 44:81, 44:111, 44:145, 57:54, C*03:87, C*05:27, C*05:39			3					
*15:46, 15:53, 15:106, 35:47, 35:154, 40:10:01-40:10:02, 40:40, 40:49, 40:129, 40:164, 40:210, 40:219, 40:229, 44:02:13, 44:02:19, 44:05:03, 44:09, 44:11, 44:46, 44:75, 44:90, 44:129, 44:152, 44:170, 47:01:01:01-47:03, 47:05-47:08								
*18:04, 40:01:11				4				
*18:09, 27:01, 37:10, 39:31, 58:13		2						
*35:01:10, 35:04:02, 40:28, 50:14, 51:56:01-51:56:02, 53:28, C*02:02:23								
*40:13, 40:19, 40:117, 57:51	1							
*40:47, 40:157, 40:201, 44:55, 44:103		2	3					
*40:58				4				
*40:96		2	3					8
*40:109, 51:112	1							8
*40:110			3					8
Well No.	1	2	3	4	5	6	7	8
Length of spec.	145	145	115	170	105	160	105	70
PCR product(s)		190	145	205			255	155
		255						
Well No.	1	2	3	4	5	6	7	8
*44:02:01:01-44:02:09, 44:02:11-44:02:12, 44:02:14-44:02:18, 44:02:20-44:03:15, 44:03:17-44:05:02, 44:05:04, 44:12-44:14, 44:16-44:17, 44:19N, 44:21-44:24, 44:26-44:33, 44:34:02-44:39, 44:41:01-44:43:02, 44:45, 44:48, 44:51-44:54, 44:56N, 44:58N-44:59:02, 44:61N-44:74, 44:76-44:80, 44:82, 44:84-44:89, 44:91-44:94, 44:96-44:99, 44:101-44:102, 44:104-44:110, 44:112-44:128, 44:132-44:133, 44:135-44:144, 44:146-44:151, 44:153-44:155, 44:157-44:169, 44:171N-44:175, 47:04			3					
*44:02:10, 44:34:01			3	4				

*44:10			3			6		
*44:15		2	3		5		7	
*44:18	1				5		7	
*44:20, 44:47, 44:100			3				7	8
*44:25, 44:95	1							
*44:50, 53:30, 57:45	1							
*45:01, 45:03, 45:05-45:07, 45:11-45:13					5		7	
*45:04, 45:08					5			
*45:10					5			
*45:14					5		7	8
*50:01:01-50:01:03, 50:04-50:08, 50:10-50:11, 50:15, 50:18-50:19, 50:32					5	6		
*50:02					5	6	7	
*50:13					5	6		
*50:31					5	6		
*51:07:01, 52:01:02, 52:01:04, 52:01:09, 52:02-52:03, 52:09, 52:21				4				8
*51:08, 51:20, 51:36, 51:44N, 51:141, 52:19								8
*51:62				4		6		
Well No.	1	2	3	4	5	6	7	8
Length of spec.	145	145	115	170	105	160	105	70
PCR product(s)		190	145	205			255	155
		255						
Well No.	1	2	3	4	5	6	7	8
*51:97							7	8
*51:106				4		6		8
*51:126			3					8
*51:130								8
*52:25				4	5	6		8
*55:01:04					5	6		8
*55:44, 55:53						6		8
HLA-B allele								
Well No.	1	2	3	4	5	6	7	8

INTERPRETATION TABLE								
HLA-B*49 SSP subtyping								
Amplification patterns of the B*49:01 to B*49:26 alleles								
Well ⁸								
9	10	11	12	13	14	15	16	
155	80	505	135	150	155	160	95	Length of spec.
240	250				190	190	135	PCR product(s)
						290		
								Length of int.
800	800	1070	1070	1070	1070	1070	1070	pos. control ¹
206	357	317	97	420	357	357	176	5'-primer ²
5' -gAA 3'	5' -Tgg 3'	5' -gCT 3'	5' -TCT 3'	5' -TTA 3'	5' -Tgg 3'	5' -Tgg 3'	5' -gAC 3'	
362							379	
5' -gAg 3'							5' -ACC 3'	
319	394	538	193	527	470	476	272	3'-primer(s) ³
5' -gCA 3'	5' -gCA 3'	5' -gTC 3'	5' -CgT 3'	5' -CCA 3'	5' -TCT 3'	5' -CCC 3'	5' -Tgg 3'	
559	565				505	506	435	
5' -CTC 3'	5' -CAg 3'				5' -gCT 3'	5' -Tgg 3'	5' -TCT 3'	
					506	608		
					5' -Tgg 3'	5' -gCT 3'		
9	10	11	12	13	14	15	16	Well No.
								HLA-B allele ⁴
								*49:01:01-49:01:04, 49:23, 49:25
								*49:02
								*49:03
								*49:04
								*49:05
								*49:06
9								*49:07, 49:21 ⁵
	10							*49:08, 49:16 ⁶
								*49:09
			12					*49:10, 49:24
				13				*49:11
					14			*49:12
						15		*49:13-49:14 ⁷
							16	*49:15
					14	15		*49:17
							16	*49:18
					14			*49:19N
9	10	11	12	13	14	15	16	Well No.

								*07:78, 13:31, 13:41, 54:16, 54:20, 55:09, 55:21, 55:46, 55:52, 55:56, 56:01:05, 56:13
								*07:84, 08:09, 08:84, 13:35, 13:59, 13:62, 15:83, 27:14, 27:81, 40:06:01:01-40:06:07, 40:44, 40:53, 40:70, 40:75, 40:83, 40:93, 40:95, 40:103, 40:127, 40:131, 40:148, 40:161-40:162, 40:165, 40:177, 40:190, 40:230, 41:01, 41:05-41:07, 41:09, 41:12, 41:14, 41:16-41:17, 41:20-41:22, 41:25-41:26, 42:04, 50:20, 51:01:01-51:01:18, 51:01:20-51:03, 51:05, 51:07:02, 51:09:01-51:12, 51:14, 51:16, 51:18-51:19, 51:21-51:22, 51:24:01-51:24:04, 51:26-51:35, 51:38-51:41N, 51:43, 51:48-51:55, 51:57-51:58, 51:60-51:61:02, 51:65-51:80, 51:82-51:91, 51:93, 51:95-51:96, 51:98N-51:105, 51:107, 51:109-51:111, 51:113-51:125, 51:127-51:129, 51:131-51:134, 51:136-51:138, 51:140, 51:142-51:147, 51:149N-51:152, 52:01:01:01-52:01:01:02, 52:01:03, 52:01:05-52:01:08, 52:01:10-52:01:17, 52:04-52:08, 52:10:01-52:13, 52:16-52:18, 52:20, 52:22-52:24, 52:26-52:31, 54:04, 54:11, 55:17, 55:20, 55:28, 56:05:01-56:06, 56:15, 56:21, 58:08:01-58:08:02, 59:02, 78:01:01-78:07
		11						*08:03, 08:52, 08:78, 37:34, 38:30, 44:06, 53:22, 57:09, 57:24
9	10	11	12	13	14	15	16	Well No.
155	80	505	135	150	155	160	95	Length of spec.
240	250				190	190	135	PCR product(s)
						290		
9	10	11	12	13	14	15	16	Well No.
				13				*13:01:01-13:01:06, 13:06-13:07N, 13:11-13:12:02, 13:17, 13:22:01-13:22:02, 13:25, 13:28-13:29, 13:36, 13:39, 13:43, 13:50, 13:52, 13:57, 13:60-13:61, 13:63N-13:64, 15:86, 15:224, 40:48, 40:71, 56:02, 56:04, 56:10

				13				*13:02:01-13:02:05, 13:02:07-13:02:14, 13:03, 13:08Q-13:09, 13:14, 13:19, 13:27, 13:30, 13:32-13:34, 13:37-13:38, 13:40, 13:42, 13:44-13:45, 13:49N, 13:53-13:54, 13:56N, 13:58, 13:65-13:67, 35:60, 46:11, 46:18, 51:15, 54:01:01-54:03, 54:05N, 54:07-54:08N, 54:12-54:13, 54:17-54:19, 54:21-54:28, 55:02:01-55:02:06, 55:07, 55:10, 55:12, 55:16, 55:18-55:19, 55:22, 55:26, 55:30, 55:34-55:35, 55:41, 55:43, 55:47-55:48, 55:50, 56:01:01-56:01:04, 56:07-56:08, 56:14, 56:16-56:17, 56:19N-56:20:02, 56:23-56:24, 56:26-56:29, 56:33, 56:35-56:36, 56:38N-56:39, 59:01:01:01-59:01:01:02, 59:04-59:05
				13				*13:02:06
				13				*13:02:15, 13:47, 55:39, 55:42
								*13:04, 13:46, 15:04, 15:16:01-15:16:02, 15:67, 15:95, 15:137, 15:155, 15:222, 15:254, 39:06:01-39:06:02, 39:33-39:34, 39:50, 39:57, 39:62, 39:64, 40:86, 40:159, 46:32, 51:13:01-51:13:02, 51:23, 51:37, 51:63, 51:92, 51:108, 52:14-52:15, 54:14, 55:13, 55:23, 55:32, 55:58, 56:22, 59:03, 73:01-73:02
				13				*13:15, 56:34
9	10	11	12	13	14	15	16	Well No.
155	80	505	135	150	155	160	95	Length of spec.
240	250				190	190	135	PCR product(s)
						290		
9	10	11	12	13	14	15	16	Well No.
								*13:16, 13:48, 15:42, 55:01:01-55:01:03, 55:01:05-55:01:06, 55:01:08-55:01:10, 55:03, 55:05, 55:11, 55:15, 55:24-55:25, 55:29, 55:31, 55:33, 55:36, 55:38, 55:40, 55:45, 55:54-55:55N, 55:57, 56:25, 56:30, 56:37
				w				*13:18, 54:10, 55:37
								*13:20, 39:17, 50:12, 50:16-50:17, 55:01:07
				13				*13:23
				13				*13:55
								*15:16:03, 35:37, 45:02, 45:09, 50:09

								*15:33, 15:248, 44:03:16, 44:07, 44:49, 44:81, 44:111, 44:145, 57:54, C*03:87, C*05:27, C*05:39
			12					*15:46, 15:53, 15:106, 35:47, 35:154, 40:10:01-40:10:02, 40:40, 40:49, 40:129, 40:164, 40:210, 40:219, 40:229, 44:02:13, 44:02:19, 44:05:03, 44:09, 44:11, 44:46, 44:75, 44:90, 44:129, 44:152, 44:170, 47:01:01:01-47:03, 47:05-47:08
								*18:04, 40:01:11
								*18:09, 27:01, 37:10, 39:31, 58:13
							16	*35:01:10, 35:04:02, 40:28, 50:14, 51:56:01-51:56:02, 53:28, C*02:02:23
								*40:13, 40:19, 40:117, 57:51
								*40:47, 40:157, 40:201, 44:55, 44:103
			12					*40:58
								*40:96
								*40:109, 51:112
			12					*40:110
9	10	11	12	13	14	15	16	Well No.
155	80	505	135	150	155	160	95	Length of spec.
240	250				190	190	135	PCR product(s)
						290		
9	10	11	12	13	14	15	16	Well No.
			12					*44:02:01:01-44:02:09, 44:02:11-44:02:12, 44:02:14-44:02:18, 44:02:20-44:03:15, 44:03:17-44:05:02, 44:05:04, 44:12-44:14, 44:16-44:17, 44:19N, 44:21-44:24, 44:26-44:33, 44:34:02-44:39, 44:41:01-44:43:02, 44:45, 44:48, 44:51-44:54, 44:56N, 44:58N-44:59:02, 44:61N-44:74, 44:76-44:80, 44:82, 44:84-44:89, 44:91-44:94, 44:96-44:99, 44:101-44:102, 44:104-44:110, 44:112-44:128, 44:132-44:133, 44:135-44:144, 44:146-44:151, 44:153-44:155, 44:157-44:169, 44:171N-44:175, 47:04
			12					*44:02:10, 44:34:01

			12	13				*44:10
								*44:15
		11						*44:18
			12					*44:20, 44:47, 44:100
		11	12					*44:25, 44:95
			12					*44:50, 53:30, 57:45
								*45:01, 45:03, 45:05-45:07, 45:11-45:13
								*45:04, 45:08
9								*45:10
								*45:14
								*50:01:01-50:01:03, 50:04-50:08, 50:10-50:11, 50:15, 50:18-50:19, 50:32
								*50:02
			12					*50:13
9								*50:31
								*51:07:01, 52:01:02, 52:01:04, 52:01:09, 52:02-52:03, 52:09, 52:21
		11						*51:08, 51:20, 51:36, 51:44N, 51:141, 52:19
								*51:62
9	10	11	12	13	14	15	16	Well No.
155	80	505	135	150	155	160	95	Length of spec.
240	250				190	190	135	PCR product(s)
						290		
9	10	11	12	13	14	15	16	Well No.
		11						*51:97
								*51:106
								*51:126
					14			*51:130
								*52:25
							16	*55:01:04
								*55:44, 55:53
								HLA-B allele
9	10	11	12	13	14	15	16	Well No.