

INTERPRETATION TABLE								
HLA-B*78 SSP subtyping								
Amplification patterns of the B*78:01 to B*78:07 alleles								
	Well							
	1	2	3	4	5	6	7	8
Length of spec.	265	190	225	170	210	95	210	210
PCR product								
Length of int.	800	1070	1070	1070	800	1070	1070	1070
pos. control ¹								
5'-primer ²	357	141	106	141	357	206	141	141
	5' -Tgg 3'	5' -ATT 3'	5' -CCA 3'	5' -ATT 3'	5' -Tgg 3'	5' -gAC 3'	5' -ATT 3'	5' -ATT 3'
			106					
			5' -CCg 3'					
3'-primer ³	583	292	292	272	527	259	311	309
	5' -gTg 3'	5' -gTC 3'	5' -gTA 3'	5' -TgC 3'	5' -CCA 3'	5' -CTC 3'	5' -ggT 3'	5' -ATC 3'
					527			
					5' -CCA 3'			
Well No.	1	2	3	4	5	6	7	8
HLA-B allele ⁴								
*78:01:01-78:01:02	1	2					7	
*78:02:01	1		3					
*78:02:02	1		3				7	
*78:03	1	2		4			7	
*78:04			3		5			
*78:05	1		3			6		
*78:06	1		3			6		
*78:07	1	2					7	
*07:02:01-07:02:29, 07:04-07:07, 07:09-07:15, 07:17-07:26, 07:28-07:31, 07:33-07:36, 07:39-07:46, 07:48-07:49N, 07:51-07:64, 07:66-07:68:03, 07:70-07:84, 07:86-07:133, 07:135N-07:143, 14:21, 15:76, 15:101, 27:01-27:11, 27:13, 27:15, 27:17, 27:19-27:21, 27:24-27:28, 27:30-27:38, 27:40-27:51, 27:53-27:58, 27:60-27:76, 27:78-27:80, 27:82-27:86, 38:26, 40:166, 42:01:01-42:02, 42:05:01-42:06, 42:08-42:10, 42:12-42:16, 44:90, 44:97, 45:06, 46:01:01-46:10, 46:12-46:17, 46:19-46:30, 54:06, 54:09, 55:01:07, 55:04, 55:09, 55:14, 55:24, 55:49, 56:03, 56:09-56:12, 56:18, 56:31-56:32, 67:01:01-67:03, 81:01-81:05, 83:01								
*07:65		2					7	
Well No.	1	2	3	4	5	6	7	8
Length of spec.	265	190	225	170	210	95	210	210
PCR product								
Well No.	1	2	3	4	5	6	7	8

*07:134, 35:76, 35:186								
*08:03, 08:52, 08:78, 40:13, 40:19, 40:117, 48:18, 49:18, 57:05, A*24:146								
*08:09, 13:46								
*08:21, 08:25, 13:48, 38:30, 39:32, 40:05, 40:26, 40:28, 40:71, 40:174, 44:10, 44:14, 44:62, 44:77, 44:82, 57:28N								
*08:23, 08:54, 13:39, 14:18, 15:01:01:01-15:01:04, 15:01:06-15:08, 15:10:01-15:12, 15:14-15:15, 15:18:01-15:21, 15:25:01-15:29, 15:31-15:35, 15:37-15:40, 15:44-15:47, 15:49-15:56, 15:60, 15:62-15:66, 15:69, 15:72, 15:74-15:75, 15:77-15:82, 15:84-15:88, 15:90-15:93, 15:96-15:99, 15:102-15:114, 15:116-15:129, 15:131-15:147, 15:149N, 15:151-15:154, 15:156, 15:158-15:161, 15:163, 15:165-15:167, 15:169-15:174, 15:176, 15:178-15:179, 15:181N-15:188, 15:190N-15:195, 15:197-15:201, 15:203-15:207, 15:209N-15:215, 15:217-15:221, 15:223-15:228, 15:231-15:235, 35:08:02, 35:19, 35:25-35:26, 35:46-35:47, 35:49, 35:63, 40:01:01-40:01:10, 40:01:12, 40:01:14-40:01:14-40:01:23, 40:07, 40:10:01-40:10:02, 40:12, 40:14:01-40:16, 40:21-40:23, 40:25, 40:30-40:34, 40:36, 40:38, 40:42, 40:45-40:46, 40:48-40:49, 40:51-40:52, 40:54-40:55, 40:59-40:62, 40:65, 40:67, 40:69, 40:72:01-40:73, 40:76-40:77, 40:79-40:81, 40:84, 40:87:01-40:88, 40:100-40:102, 40:106, 40:108, 40:112-40:114, 40:116, 40:118N, 40:121, 40:123-40:126, 40:128-40:130, 40:132, 40:134-40:141, 40:146, 40:150-40:156, 40:158, 40:160, 40:163, 40:168, 40:170-40:172, 40:175, 41:02:01-41:04, 41:08, 41:10-41:11, 41:13, 41:15, 41:18-41:19, 44:09, 44:46, 44:75, 44:129, 45:01-45:05, 45:07, 45:09-45:11, 45:13, 47:02-47:03, 48:22, 50:01:01-50:02, 50:04-50:15, 57:38			3					
Well No.	1	2	3	4	5	6	7	8

Length of spec.	265	190	225	170	210	95	210	210
PCR product								
Well No.	1	2	3	4	5	6	7	8
*08:32, 18:01:01-18:03, 18:05-18:08, 18:10-18:11, 18:13-18:15, 18:17N-18:24, 18:26-18:36, 18:38-18:47, 18:50-18:53, 18:55-18:65, 35:29, 35:50, 35:84, 35:136, 35:153, 39:19:01-39:19:02								
*13:02:01-13:02:12, 13:04, 13:08Q, 13:14, 13:19, 13:27, 13:30, 13:32-13:35, 13:37-13:38, 13:40, 13:42, 13:44-13:45, 13:47, 13:49N, 15:222, 39:50, 40:06:01:01-40:06:04, 40:44, 40:70, 40:75, 40:83, 40:86, 40:93, 40:96, 40:103, 40:110, 40:127, 40:131, 40:159, 40:162, 40:165, 40:167, 40:177, 44:47, 49:11					5			
*13:03, 56:17, 59:04					5			
*13:09, 15:155, 40:53			3		5			
*13:15	1				5			
*13:18					w			
*15:09, 15:30, 15:48, 15:58, 15:73, 15:150, 15:229, 35:154, 40:63, 40:92, 41:17, 45:12, 57:12			3					
*15:42, 15:83, 41:01, 41:05-41:07, 41:09, 41:12, 41:14, 41:16, 45:08			3					
*15:202, 35:10, 35:13, 35:16, 35:28, 35:80			3			6		
*18:04, 35:42:02			3				7	
*18:09, 18:54, 18:67, 37:08, 38:06-38:07, 53:01:01-53:04, 53:07-53:15, 53:18, 53:20-53:27, 58:01:01-58:02, 58:04-58:07, 58:09-58:26, 58:29-58:35								
*18:12, 35:69, 37:11						6		
*18:25, 18:68, 35:01:01:01-35:01:29, 35:03:01-35:03:10, 35:05:01-35:05:02, 35:07-35:08:01, 35:08:03-35:08:04, 35:11:01-35:11:02, 35:14:01-35:15, 35:17, 35:20:01-35:21, 35:23-35:24:02, 35:30-35:36, 35:38-35:42:01, 35:43:01, 35:45, 35:48, 35:51-35:55, 35:57-35:58, 35:61-35:62, 35:64-35:68:02, 35:70-35:72, 35:74-35:75, 35:77-35:79, 35:82, 35:85-35:94, 35:96-35:128, 35:130N-35:135, 35:137-35:145N, 35:147-35:148, 35:150-35:152, 35:155-35:161, 35:163-35:171, 35:173N-35:181			3					
*18:49								
*27:14, 27:81, 55:22, 56:19N					5			
Well No.	1	2	3	4	5	6	7	8
Length of spec.	265	190	225	170	210	95	210	210
PCR product								
Well No.	1	2	3	4	5	6	7	8

*27:52								
*35:02:01-35:02:04, 35:04:01-35:04:03, 35:06, 35:09:01-35:09:03, 35:12:01-35:12:03, 35:18, 35:22, 35:44, 35:59, 35:81, 35:83, 35:95, 35:129N, 35:146, 35:149, 35:172, 35:182-35:184			3					
*35:08:05, 40:01:11, 40:58			3				7	
*35:27, 35:56			3					
*35:37			3		5			
*35:60			3		5			
*35:162								
*35:185			3				7	
*37:01:01-37:01:05, 37:01:07-37:04:02, 37:07, 37:09-37:10, 37:12-37:13, 37:15-37:27, 37:29-37:31, 44:83, 44:134, 53:17:01-53:17:02						6		
*37:05						6		
*37:14						6		
*39:06:01-39:06:02, 39:34, 39:57, 39:62, 39:64, 59:01:01:01-59:01:01:02, 59:03, 59:05					5			
*39:33					w			
*39:63		2					7	
*40:109					5			
*42:04, 54:20, 55:01:01-55:01:06, 55:01:08, 55:03, 55:05, 55:11, 55:15, 55:17, 55:20-55:21, 55:25, 55:28-55:29, 55:33, 55:36, 55:38, 55:40, 55:44-55:45, 55:52-55:54								
*44:06, 51:42, 51:45, 53:06								8
*46:11, 54:03, 56:01:01-56:01:04, 56:07-56:08, 56:14-56:16, 56:20:01-56:20:02, 56:22, 56:24, 56:26-56:29					5			
*46:18, 54:01:01-54:02, 54:04-54:05N, 54:07-54:08N, 54:11-54:19, 54:21-54:24, 55:02:01-55:02:06, 55:07, 55:10, 55:12-55:13, 55:16, 55:19, 55:23, 55:26-55:27, 55:30, 55:32, 55:34-55:35, 55:39, 55:41-55:43, 55:46-55:48, 55:50					5			
*49:03						6		8
*49:09	1							
Well No.	1	2	3	4	5	6	7	8

Length of spec.	265	190	225	170	210	95	210	210
PCR product								
Well No.	1	2	3	4	5	6	7	8
*51:01:01, 51:01:03-51:01:07, 51:01:10-51:01:14, 51:01:16-51:01:18, 51:01:20-51:01:30, 51:03, 51:07:01, 51:08, 51:11N-51:12, 51:20, 51:24:01-51:24:04, 51:26-51:30, 51:32-51:33, 51:35, 51:38-51:39, 51:41N, 51:43-51:44N, 51:48-51:49, 51:51-51:53, 51:55, 51:57-51:58, 51:60-51:61, 51:65-51:72, 51:74-51:77, 51:79-51:80, 51:83-51:84, 51:86-51:88, 51:91, 51:95-51:96, 51:98N-51:100, 51:102, 51:105, 51:107, 51:109-51:111, 51:113-51:115, 51:117-51:118N, 51:120-51:121, 51:123-51:126, 58:08:01	1							8
*51:01:02, 51:01:09, 51:07:02, 51:89, 51:103, 51:116, 51:119, 52:18, 58:08:02	1							
*51:01:08, 51:01:15, 51:13:01-51:14, 51:50, 51:63, 51:97, 51:106	1							8
*51:01:19	1							8
*51:02:01, 51:02:04-51:02:05, 51:04, 51:06:01-51:06:02, 51:23, 51:46, 51:56:01-51:56:02, 51:59, 51:64								8
*51:02:02, 53:19, 58:28								
*51:02:03, 51:34, 51:81								8
*51:05					w			
*51:09:01, 51:19, 51:73, 51:122	1				5			8
*51:09:02	1				5			
*51:10					5			8
*51:15					5			
*51:16-51:18, 51:82, 51:94	1							8
*51:21, 51:101	1							8
*51:22	1			4				8
*51:31	1				5			8
*51:36								8
*51:37, 51:85, 51:90, 51:92	1							8
*51:40, 51:108					5			8
*51:54					w			
*51:62								8
*51:78	1							
*51:93					5			
*51:104, 51:112, 52:02	1							8
Well No.	1	2	3	4	5	6	7	8
Length of spec.	265	190	225	170	210	95	210	210
PCR product								
Well No.	1	2	3	4	5	6	7	8

*52:01:01:01-52:01:01:02, 52:01:03, 52:01:05-52:01:08, 52:01:10, 52:04-52:05, 52:07, 52:13, 52:15, 52:17, 52:19, 52:22-52:24, 52:27	1					6		
*52:01:02, 52:01:04, 52:01:09, 52:06:01-52:06:02, 52:21	1					6		8
*52:03					5	6		8
*52:08	1					6		
*52:09	1		3			6		8
*52:10:01-52:10:02	1				5	6		
*52:11						6		
*52:12, 52:26	1					6		
*52:14, 52:20, 52:25	1					6		
*52:16	1							
*53:05, 53:16			3					
*54:10, 55:37					w			
*55:08, 55:51, 56:02, 56:04, 56:13, 56:25, 56:30, 82:01-82:03								
*55:18, 56:23			3		5			
*55:31			3					
*56:05:01	1	2					7	
*56:05:02	1							
*56:06	1	2					7	
*56:21	1							
*57:02:01-57:03:02, 57:07, 57:09, 57:17, 57:39, 57:42, 57:46								
*58:27								
*59:02					5			
*73:01-73:02	1				5			
HLA-B allele								
Well No.	1	2	3	4	5	6	7	8

INTERPRETATION TABLE							
HLA-B*78 SSP subtyping							
Amplification patterns of the B*78:01 to B*78:07 alleles							
Well							
9	10	11	12	13	14	15	
325	200	150	145	135	380	245	Length of spec. PCR product
1070	1070	1070	1070	1070	1070	800	Length of int. pos. control ¹
1 st I	397	206	206	206	317	357	5'-primer ²
5'-CAG 3'	5'-gCT 3'	5'-gAC 3'	5'-gAC 3'	5'-gAC 3'	5'-gCT 3'	5'-Tgg 3'	
	412						
	5'-ATA 3'						
282	559	317	311	302	412	559	3'-primer ³
5'-gCC 3'	5'-CAG 3'	5'-ggA 3'	5'-ggT 3'	5'-ggT 3'	5'-gTT 3'	5'-CgT 3'	
9	10	11	12	13	14	15	Well No.
							HLA-B allele ⁴
	10		12				*78:01:01-78:01:02
	10		12				*78:02:01
	10		12				*78:02:02
	10		12				*78:03
	10		12				*78:04
	10		12				*78:05
	10		12	13			*78:06
			12			15	*78:07
9							*07:02:01-07:02:29, 07:04-07:07, 07:09-07:15, 07:17-07:26, 07:28-07:31, 07:33-07:36, 07:39-07:46, 07:48-07:49N, 07:51-07:64, 07:66-07:68:03, 07:70-07:84, 07:86-07:133, 07:135N-07:143, 14:21, 15:76, 15:101, 27:01-27:11, 27:13, 27:15, 27:17, 27:19-27:21, 27:24-27:28, 27:30-27:38, 27:40-27:51, 27:53-27:58, 27:60-27:76, 27:78-27:80, 27:82-27:86, 38:26, 40:166, 42:01:01-42:02, 42:05:01-42:06, 42:08-42:10, 42:12-42:16, 44:90, 44:97, 45:06, 46:01:01-46:10, 46:12-46:17, 46:19-46:30, 54:06, 54:09, 55:01:07, 55:04, 55:09, 55:14, 55:24, 55:49, 56:03, 56:09-56:12, 56:18, 56:31-56:32, 67:01:01-67:03, 81:01-81:05, 83:01
9			12				*07:65
9	10	11	12	13	14	15	Well No.
325	200	150	145	135	380	245	Length of spec. PCR product
9	10	11	12	13	14	15	Well No.

9			12				*07:134, 35:76, 35:186
					14		*08:03, 08:52, 08:78, 40:13, 40:19, 40:117, 48:18, 49:18, 57:05, A*24:146
						15	*08:09, 13:46
	10						*08:21, 08:25, 13:48, 38:30, 39:32, 40:05, 40:26, 40:28, 40:71, 40:174, 44:10, 44:14, 44:62, 44:77, 44:82, 57:28N
							*08:23, 08:54, 13:39, 14:18, 15:01:01:01- 15:01:04, 15:01:06-15:08, 15:10:01-15:12, 15:14-15:15, 15:18:01-15:21, 15:25:01-15:29, 15:31-15:35, 15:37-15:40, 15:44-15:47, 15:49- 15:56, 15:60, 15:62-15:66, 15:69, 15:72, 15:74- 15:75, 15:77-15:82, 15:84-15:88, 15:90-15:93, 15:96-15:99, 15:102-15:114, 15:116-15:129, 15:131-15:147, 15:149N, 15:151-15:154, 15:156, 15:158-15:161, 15:163, 15:165-15:167, 15:169-15:174, 15:176, 15:178-15:179, 15:181N-15:188, 15:190N-15:195, 15:197- 15:201, 15:203-15:207, 15:209N-15:215, 15:217-15:221, 15:223-15:228, 15:231-15:235, 35:08:02, 35:19, 35:25-35:26, 35:46-35:47, 35:49, 35:63, 40:01:01-40:01:10, 40:01:12, 40:01:14- 40:01:23, 40:07, 40:10:01-40:10:02, 40:12, 40:14:01-40:16, 40:21-40:23, 40:25, 40:30- 40:34, 40:36, 40:38, 40:42, 40:45-40:46, 40:48- 40:49, 40:51-40:52, 40:54-40:55, 40:59-40:62, 40:65, 40:67, 40:69, 40:72:01-40:73, 40:76- 40:77, 40:79-40:81, 40:84, 40:87:01-40:88, 40:100-40:102, 40:106, 40:108, 40:112-40:114, 40:116, 40:118N, 40:121, 40:123-40:126, 40:128-40:130, 40:132, 40:134-40:141, 40:146, 40:150-40:156, 40:158, 40:160, 40:163, 40:168, 40:170-40:172, 40:175, 41:02:01- 41:04, 41:08, 41:10-41:11, 41:13, 41:15, 41:18- 41:19, 44:09, 44:46, 44:75, 44:129, 45:01- 45:05, 45:07, 45:09-45:11, 45:13, 47:02-47:03, 48:22, 50:01:01-50:02, 50:04-50:15, 57:38
9	10	11	12	13	14	15	Well No.

325	200	150	145	135	380	245	Length of spec.
							PCR product
9	10	11	12	13	14	15	Well No.
			12				*08:32, 18:01:01-18:03, 18:05-18:08, 18:10-18:11, 18:13-18:15, 18:17N-18:24, 18:26-18:36, 18:38-18:47, 18:50-18:53, 18:55-18:65, 35:29, 35:50, 35:84, 35:136, 35:153, 39:19:01-39:19:02
							*13:02:01-13:02:12, 13:04, 13:08Q, 13:14, 13:19, 13:27, 13:30, 13:32-13:35, 13:37-13:38, 13:40, 13:42, 13:44-13:45, 13:47, 13:49N, 15:222, 39:50, 40:06:01:01-40:06:04, 40:44, 40:70, 40:75, 40:83, 40:86, 40:93, 40:96, 40:103, 40:110, 40:127, 40:131, 40:159, 40:162, 40:165, 40:167, 40:177, 44:47, 49:11
	10						*13:03, 56:17, 59:04
							*13:09, 15:155, 40:53
							*13:15
							*13:18
	10						*15:09, 15:30, 15:48, 15:58, 15:73, 15:150, 15:229, 35:154, 40:63, 40:92, 41:17, 45:12, 57:12
						15	*15:42, 15:83, 41:01, 41:05-41:07, 41:09, 41:12, 41:14, 41:16, 45:08
			12				*15:202, 35:10, 35:13, 35:16, 35:28, 35:80
			12				*18:04, 35:42:02
		11					*18:09, 18:54, 18:67, 37:08, 38:06-38:07, 53:01:01-53:04, 53:07-53:15, 53:18, 53:20-53:27, 58:01:01-58:02, 58:04-58:07, 58:09-58:26, 58:29-58:35
			12				*18:12, 35:69, 37:11
			12				*18:25, 18:68, 35:01:01:01-35:01:29, 35:03:01-35:03:10, 35:05:01-35:05:02, 35:07-35:08:01, 35:08:03-35:08:04, 35:11:01-35:11:02, 35:14:01-35:15, 35:17, 35:20:01-35:21, 35:23-35:24:02, 35:30-35:36, 35:38-35:42:01, 35:43:01, 35:45, 35:48, 35:51-35:55, 35:57-35:58, 35:61-35:62, 35:64-35:68:02, 35:70-35:72, 35:74-35:75, 35:77-35:79, 35:82, 35:85-35:94, 35:96-35:128, 35:130N-35:135, 35:137-35:145N, 35:147-35:148, 35:150-35:152, 35:155-35:161, 35:163-35:171, 35:173N-35:181
			12	13			*18:49
9							*27:14, 27:81, 55:22, 56:19N
9	10	11	12	13	14	15	Well No.
325	200	150	145	135	380	245	Length of spec.
							PCR product
9	10	11	12	13	14	15	Well No.

9		11					*27:52
	10		12				*35:02:01-35:02:04, 35:04:01-35:04:03, 35:06, 35:09:01-35:09:03, 35:12:01-35:12:03, 35:18, 35:22, 35:44, 35:59, 35:81, 35:83, 35:95, 35:129N, 35:146, 35:149, 35:172, 35:182-35:184
							*35:08:05, 40:01:11, 40:58
			12	13			*35:27, 35:56
			12				*35:37
			12			15	*35:60
	10		12				*35:162
			12	13			*35:185
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9	10	11	12	13	14	15	Well No.

325	200	150	145	135	380	245	Length of spec.
							PCR product
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9	10	11	12	13	14	15	Well No.
325	200	150	145	135	380	245	Length of spec.
							PCR product
9	10	11	12	13	14	15	Well No.

	10	11			14		*52:01:01:01-52:01:01:02, 52:01:03, 52:01:05-52:01:08, 52:01:10, 52:04-52:05, 52:07, 52:13, 52:15, 52:17, 52:19, 52:22-52:24, 52:27
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