

INTERPRETATION TABLE												
HLA-B*53 SSP subtyping												
Amplification patterns of the B*53:01 to B*53:27 alleles												
	Well ⁶											
	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	145	270	135	190	150	205	130	170	75	150	85	105
PCR product(s)			290			235						
Length of int. pos. control ¹	800	1070	800	800	800	800	800	1070	1070	1070	800	1070
5'-primer(s) ²	206	355	206	49	206	106	106	527	527	419	419	357
	5'-gAC ³	5'-TCA ³	5'-gAC ³	5'-CAG ³	5'-gAC ³	5'-CCA ³	5'-CCA ³	5'-TgA ³	5'-TgT ³	5'-gTC ³	5'-gTC ³	5'-Tg ³
			355	419	419	419	368					
			5'-TCA ³	5'-gTT ³	5'-gTC ³	5'-gTC ³	5'-gTC ³					
				419			368					
				5'-gTT ³			5'-gTC ³					
				419								
				5'-gTT ³								
3'-primer(s) ³	309	583	301	79	309	302	197	314	559	527	463	420
	5'-ATC ³	5'-gTg ³	5'-gTC ³	5'-gTA ³	5'-gTg ³	5'-ggC ³	5'-gAA ³	5'-TAT ³	5'-Cag ³	5'-CCA ³	5'-gCT ³	5'-gCT ³
			302	559	538	583	463			527		
			5'-ggC ³	5'-Cag ³	5'-gTC ³	5'-gTg ³	5'-gCT ³			5'-CCA ³		
			603									
			5'-gTg ³									
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
HLA-B allele ⁴												
*53:01:01-53:01:05, 53:25-53:27	1								9	10	11	
*53:02	1	2				6			9	10	11	
*53:03			3						9	10	11	
*53:04	1			4					9			
*53:05	1		3			6			9	10	11	
*53:06	1	2				6		8			11	
*53:07	1			4			7		9			
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	145	270	135	190	150	205	130	170	75	150	85	105
PCR product(s)			290			235						
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*53:08:01-53:08:02	1							8			11	
*53:09					5				9	10	11	

*53:10	1						7		9	10	11	
*53:11					5				9	w	11	
*53:12					5	6			9	10	11	
*53:13					5				9	10	11	
*53:14	1								9	10	11	
*53:15	1		3						9	10	11	
*53:16	1		3			6			9	w	11	
*53:17:01-53:17:02	1								9	10	11	
*53:18	1			4					9	10	11	
*53:19, 52:03, 52:10:01-52:10:02 ⁵	1								9			
*53:20	1								9	10	11	
*53:21	1								9	10	11	
*53:22	1				5				9		11	
*53:23	1								9	10	11	
*53:24	1								9	w	11	
*07:02:01-07:08, 07:10, 07:12-07:16, 07:18:01-07:19, 07:21-07:23, 07:27-07:33, 07:35-07:42, 07:44-07:47, 07:49N-07:50, 07:52-07:59, 07:61-07:64, 07:66-07:77, 07:79, 07:81-07:114, 07:116-07:130, 07:132-07:133, 07:135N-07:144, 08:20, 08:53, 08:79, 14:03, 15:30, 15:33, 15:45, 15:63, 15:77-15:78:03, 15:116, 15:141, 15:150, 15:168, 15:233, 27:25, 35:44, 35:118, 39:18, 39:36, 40:15-40:16, 40:23, 40:32, 40:98, 40:161, 46:01:06, 48:05, 48:08, 57:09, 57:13								8				
*07:09, 07:11, 07:17, 07:115								8				
*07:20, 07:24, 07:60, 15:99, 44:76								8				
*07:26, 07:34, 07:43, 07:80, 07:131, 13:20, 14:01:01-14:02:06, 14:04, 14:06:01-14:09, 14:11-14:18, 14:20-14:26, 14:28, 15:09-15:10:02, 15:17:01:01-15:17:02, 15:37, 15:72, 15:90, 15:177, 15:196, 15:208, 15:216, 15:230, 27:04:01-27:04:03, 27:06, 27:10, 27:15, 27:18, 27:20-27:21, 27:24, 27:40, 27:54, 27:63, 27:66N, 27:68-27:69, 27:79, 27:86, 38:10, 38:32, 39:35, 40:05, 40:26, 40:51, 40:95, 40:148, 40:174, 44:79, 48:15, 49:18, 50:14, 51:104, 51:112, 52:02, 52:16, 55:01:04, 55:01:07, 55:17, 55:28, 55:44, 55:53, 56:05:01-56:05:02, 56:21, 78:02:01-78:02:02, 78:05-78:06								8				
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	145	270	135	190	150	205	130	170	75	150	85	105
PCR product(s)			290			235						
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

*07:48, 08:13, 08:55, 13:01:01-13:01:06, 13:06-13:07N, 13:11-13:13, 13:17, 13:21-13:23, 13:28-13:29, 13:35-13:36, 13:39, 13:43, 13:47, 13:50-13:52, 15:86, 15:162, 15:188, 15:224, 27:01-27:03, 27:05:02-27:05:17, 27:07:01-27:09, 27:11-27:14, 27:16-27:17, 27:19, 27:23, 27:26-27:37, 27:39, 27:42-27:44, 27:46, 27:48-27:51, 27:53, 27:55-27:62, 27:64N-27:65N, 27:67, 27:70-27:75, 27:77-27:78, 27:80-27:85, 35:03:06, 35:31, 35:33, 35:65Q, 35:88, 38:01:01-38:05, 38:08-38:09, 38:11-38:23, 38:25-38:29, 38:31, 38:33-38:37, 39:01:01:01-39:01:01:02L, 39:01:03-39:06:02, 39:10:01-39:10:02, 39:12-39:17, 39:20, 39:22-39:23, 39:25N-39:31, 39:34, 39:38Q-39:42, 39:44-39:68, 40:01:01-40:02:12, 40:04, 40:06:01:01-40:14:03, 40:18-40:19, 40:21-40:22N, 40:24-40:25, 40:27:01-40:27:02, 40:29-40:31, 40:33-40:37, 40:39-40:40, 40:42-40:50, 40:53-40:58, 40:61-40:62, 40:64-40:70, 40:72:01-40:91, 40:93-40:94, 40:96-40:97, 40:99-40:104, 40:106-40:127, 40:129-40:135, 40:137-40:147, 40:149-40:157, 40:160, 40:162-40:173, 40:175-40:180, 44:30-44:31, 44:64:01-44:64:02, 44:92, 44:124, 47:01:01:01-47:08, 48:01:01-48:01:03, 48:03:01-48:04, 48:06-48:07, 48:09-48:13, 48:16-48:18, 48:20-48:22, 48:26-48:27, 54:04, 54:11, 54:15, 55:04, 55:13, 55:27, 55:39, 55:42, 55:49, 56:10, 56:12, 57:46, 59:02-59:03, 67:01:01-67:03, 81:01-81:05												
*07:65								8				
*07:78, 13:31, 54:20, 55:09, 55:21, 55:52								8				12
*07:134								8				
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	145	270	135	190	150	205	130	170	75	150	85	105
PCR product(s)			290			235						
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*08:21, 27:47, 41:17, 44:02:01:01-44:02:07, 44:02:09-44:02:21, 44:05:01, 44:05:03, 44:08-44:09, 44:11-44:12, 44:14, 44:19N-44:20, 44:22-44:25, 44:27:01-44:27:02, 44:33-44:35, 44:41:01-44:42, 44:44, 44:48-44:49, 44:51-44:53, 44:55, 44:58N-44:59, 44:62-44:63, 44:66-44:68, 44:70-44:75, 44:78, 44:80, 44:84, 44:86-44:91, 44:93, 44:95, 44:97, 44:99-44:100, 44:104, 44:106, 44:113, 44:116, 44:118-44:119, 44:121, 44:123, 44:126-44:127, 44:131, 44:133, 44:136-44:139, 83:01, C*03:36 C*03:77									9			

*08:25, 15:48, 27:38, 27:76, 35:04:01-35:04:03, 35:09:01-35:09:03, 35:12:01-35:12:03, 35:22, 35:34, 35:39, 35:149, 35:182-35:184, 40:63, 40:92, 44:03:01-44:03:14, 44:07, 44:13, 44:26, 44:29, 44:32, 44:36-44:40, 44:45-44:47, 44:50, 44:54, 44:57, 44:60-44:61N, 44:65, 44:69, 44:77, 44:81-44:82, 44:85, 44:94, 44:96, 44:98, 44:103, 44:105, 44:107-44:108N, 44:110-44:111, 44:114-44:115, 44:120, 44:122, 44:125, 44:128-44:130, 44:135, 55:08, 55:51, 56:15, 57:03:01-57:03:02, 57:07, 57:17, 57:32, 57:39, 78:04									9			
*08:28, 08:35, 08:37, 42:09					5							
*08:32												
*08:49, 08:60, 08:76, 42:13			3									
*08:69, 41:18, C*08:08												
*13:02:01-13:02:12, 13:08Q-13:09, 13:14-13:15, 13:19, 13:27, 13:30, 13:32-13:34, 13:37-13:38, 13:40, 13:42, 13:44-13:45, 13:49N, 35:60, 46:18, 54:01:01-54:02, 54:05N, 54:07-54:08N, 54:12-54:13, 54:16-54:19, 54:21-54:24, 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, 55:46-55:48, 55:50, 56:19N, 56:23, 59:01:01:01-59:01:01:02, 59:05											12	
*13:03, 46:11, 49:11, 54:03, 56:01:01-56:01:04, 56:07-56:08, 56:14, 56:16-56:17, 56:20:01-56:20:02, 56:24, 56:26-56:30, 59:04				4					9			12
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	145	270	135	190	150	205	130	170	75	150	85	105
PCR product(s)			290			235						
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

*13:04, 15:05:01-15:05:02, 15:20, 15:91, 15:123, 15:136, 15:151, 15:155, 15:222, 15:235, 35:01:01:01-35:01:21, 35:01:23-35:01:29, 35:05:01-35:05:02, 35:07, 35:10, 35:16-35:17, 35:19, 35:23, 35:25-35:27, 35:30, 35:32:01-35:32:02, 35:37, 35:40N-35:42:02, 35:46-35:49, 35:52, 35:54, 35:57, 35:63, 35:68:01-35:68:02, 35:71, 35:77-35:78, 35:82, 35:89-35:92, 35:94, 35:97, 35:101:01-35:101:02, 35:103-35:104, 35:107-35:108:02, 35:110-35:113, 35:116, 35:119-35:126, 35:130N-35:134N, 35:137-35:139, 35:143-35:148, 35:159, 35:161, 35:165N, 35:168, 35:170-35:171, 35:173N, 35:175, 35:177-35:178, 44:43:01-44:43:02, 46:13:01-46:13:03, 46:19, 46:26, 48:02:01-48:02:02, 56:09, 57:01:01-57:01:02, 57:01:04, 57:01:06-57:01:11, 57:06, 57:08, 57:10-57:11, 57:15-57:16, 57:18, 57:20-57:21, 57:23, 57:29, 57:33-57:38, 57:40-57:41, 57:44-57:45, 57:48-57:52, 58:26									9	10	11	
*13:10										10	w	
*13:16, 15:42, 49:07, 55:01:01-55:01:03, 55:01:05-55:01:06, 55:01:08, 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								8				12
*13:18, 13:41, 45:08, 45:10, 54:10, 55:37												12
*13:25						6						
*13:26, 15:52, 15:114, 15:124, 15:186, 27:41, 35:01:22, 35:15, 35:35, 35:93, 35:140, 35:180, 39:07, 46:21:01-46:21:02, 48:14, 54:09, 54:14, 55:23, 55:32, 56:18, 57:01:03, 57:01:12, 57:25-57:26, 57:43										10	11	
*13:48, 49:01:01, 49:01:03-49:02, 49:06, 49:08-49:10, 49:12-49:17, 49:19N-49:20, 50:01:01-50:01:02, 50:02, 50:04-50:08, 50:10-50:11, 50:13, 50:15, 56:25				4				8				12
*14:05								8				
*14:10, 35:96, 40:28		2						8				
*14:19, 14:27, 15:133, 15:229, 35:167, 50:09, 50:12				4				8				
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	145	270	135	190	150	205	130	170	75	150	85	105
PCR product(s)			290			235						
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

[illegible]

*15:107, 35:53N, 35:64, 35:114, 57:01:05, 57:31, 57:47									9	10		
*15:115						6		8			11	
*15:128, 15:144								8			w	
*15:176, 15:200											11	
*15:185						6			9	10	11	
*15:199					5			8			11	
*15:202								8			11	
*15:218Q					5						11	
*18:01:01-18:01:03, 18:01:05-18:02, 18:05-18:06, 18:08, 18:12, 18:17N, 18:23N-18:24, 18:27-18:28, 18:31-18:32, 18:34, 18:38-18:39, 18:42-18:47, 18:49-18:53, 18:55, 18:59-18:60, 18:62-18:65						6				10	11	
*18:01:04, 18:40						6				10		
*18:03						6				10	11	
*18:04, 18:25, 18:68						6				10	11	
*18:07:01-18:07:02, 18:29, 18:33						6				10	11	
*18:09					5	6				10	11	
*18:10-18:11, 18:35										10	11	
*18:13						6				w	11	
*18:14						6				10	11	
*18:15, 18:57						6		8			11	
*18:18						6	7			10	11	
*18:19, 18:30						6		8			11	
*18:20						6				10	w	
*18:21								8				
*18:22		2				6				10	11	
*18:26, 18:41, 18:61												
*18:36						6			9	10	11	
*18:37, 18:48, 18:66, 39:43, 56:31						6				10	11	
*18:54			3			6				10	11	
*18:56					5				9		11	
*18:58									9	10	11	
*18:67	1		3			6				10	11	
*27:52			3									
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	145	270	135	190	150	205	130	170	75	150	85	105
PCR product(s)			290			235						
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*35:02:01-35:02:04, 35:83, 35:95, 35:129N, 35:154									9			
*35:03:01-35:03:05, 35:03:07-35:03:10, 35:06, 35:13, 35:36, 35:55-35:56, 35:59, 35:70, 35:74-35:75, 35:85, 35:98, 35:106, 35:127-35:128, 35:150-35:153, 35:155, 35:160, 35:179, 35:181, 39:32, 40:71, 44:10, 56:02, 56:04, 56:11, 56:22				4					9			
*35:18, 35:164, 35:172, 44:28:01-44:28:02, 57:02:01-57:02:02, 57:04-57:05, 57:12, 57:28N, 57:42									9			
*35:20:01-35:20:02, 35:28									9	10	11	

*35:21		2				6		8			11	
*35:24:01-35:24:02, 57:14		2				6			9	10	11	
*35:29, 35:69, 35:76									9	10	11	
*35:38, 35:163, 35:169, 38:30, 45:02, 82:01-82:03, C*04:34				4					9			
*35:50									9	10	11	
*35:51									9	10	11	
*35:58								8			11	
*35:62, 57:27									9	w	11	
*35:66										w	11	
*35:72									9	10	11	
*35:81		2							9			
*35:84				4					9			
*35:109		2		4					9			
*35:136				4					9			
*35:141									9		11	
*35:156, 39:33				4					9			
*35:157		2										
*35:162									9			
*35:166									9	10	11	
*35:174									9	w		
*35:186									9	10	11	
*37:01:01-37:01:05, 37:01:07-37:01:08, 37:03N, 37:05, 37:08, 37:15-37:18, 37:20, 37:22-37:25, 37:27, 37:30N				3				7				
*37:01:06								7				
*37:02			3									
*37:04:01-37:04:02		2	3					7				
*37:06, 37:28								7				
*37:07			3					8				
*37:09, 37:12, 37:19			3									
*37:10					5		7					
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	145	270	135	190	150	205	130	170	75	150	85	105
PCR product(s)			290			235						
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*37:11, 37:14, 37:29							7					
*37:13			3				7	8				
*37:21, 37:26			3				7					
*37:31			3				7					
*38:06-38:07	1											
*39:09							7					
*39:19:01-39:19:02												
*39:24:01-39:24:02, 39:37												
*40:03										10		
*40:20, 40:38, 40:52, 40:59-40:60, 40:105, 40:159, 46:06, 48:23										10		
*44:02:08, 44:101									w			
*44:06, 51:08, 51:44N	1								9			
*44:15				4		6			9			12
*44:18, 45:01, 45:04-45:07, 45:13, 56:13				4					9			12
*44:83, 44:134					5				9			

[illegible]

*58:01:01-58:01:02, 58:01:04-58:02, 58:04, 58:07, 58:10N-58:16, 58:18, 58:21, 58:23-58:26, 58:29-58:32	1								9	10	11	
*58:01:03	1								9	10		
*58:05	1										11	
*58:06, 58:19	1							8			11	
*58:08:01-58:08:02	1							8				
*58:09	1	2				6			9	10	11	
*58:17N									9	10	11	
*58:20, 58:27	1											
*58:22	1								9	w	11	
*58:28	1								9			
*58:33	1			4					9	10	11	
*58:34	1			4					9			
*58:35	1									10	11	
A*02:188, A*24:174										w		
C*03:12, 03:19, 03:26, 03:102				w								
C*03:28, 03:49, C*14:20												
C*04:08, C*05:39				4								
C*05:27, C*08:41, C*15:15, C*17:07				4								
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	145	270	135	190	150	205	130	170	75	150	85	105
PCR product(s)			290			235						
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
C*06:20, C*07:81											w	
C*07:68, 07:140, 07:151					5							
C*07:168							7				w	
C*15:39		2										
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

INTERPRETATION TABLE								
HLA-B*53 SSP subtyping								
Amplification patterns of the B*53:01 to B*53:27 alleles								
Well ⁶								
13	14	15	16	17	18	19	20	
90	95	105	160	275	140	125	60	Length of spec.
	130	205						PCR product(s)
1070	1070	800	1070	1070	1070	1070	1070	Length of int. pos. control ¹
209	106	206	539	77	106	209	539	5'-primer(s) ²
5' -ggA ³	5' -CCA ³	5' -gAC ³	5' -gCT ³	5' -CTT ³	5' -CCg ³	5' -ggA ³	5' -gCg ³	
	363	397						
	5' -AgC ³	5' -gCT ³						
256	197	272	3 rd I	309	206	292	559	3'-primer(s) ³
5' -CTC ³	5' -gAA ³	5' -Tgg ³	5' -TAT ³	5' -ATC ³	5' -CCg ³	5' -gTC ³	5' -Cag ³	
256	419	559				292		
5' -CCC ³	5' -Cgg ³	5' -Cag ³				5' -gTC ³		
	419							
	5' -CgA ³							
13	14	15	16	17	18	19	20	Well No.
								HLA-B allele ⁴
			16					*53:01:01-53:01:05, 53:25-53:27
			16					*53:02
			16					*53:03
			16					*53:04
			16					*53:05
			16					*53:06
			16					*53:07
13	14	15	16	17	18	19	20	Well No.
90	95	105	160	275	140	125	60	Length of spec.
	130	205						PCR product(s)
13	14	15	16	17	18	19	20	Well No.
			16					*53:08:01-53:08:02
		15	16					*53:09

	14		16						*53:10
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			16						*53:12
			16						*53:13
	14		16						*53:14
			16						*53:15
							20		*53:16
		15	16						*53:17:01-53:17:02
			16						*53:18
		15	16						*53:19, 52:03, 52:10:01-52:10:02 ⁵
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			16		18				*53:21
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							20		*53:24
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13	14	15	16	17	18	19	20		Well No.
90	95	105	160	275	140	125	60		Length of spec.
	130	205							PCR product(s)
13	14	15	16	17	18	19	20		Well No.

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13	14	15	16	17	18	19	20	Well No.
90	95	105	160	275	140	125	60	Length of spec.
	130	205						PCR product(s)
13	14	15	16	17	18	19	20	Well No.
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13	14	15	16	17	18	19	20	Well No.
90	95	105	160	275	140	125	60	Length of spec.
	130	205						PCR product(s)
13	14	15	16	17	18	19	20	Well No.

			16					*13:04, 15:05:01-15:05:02, 15:20, 15:91, 15:123, 15:136, 15:151, 15:155, 15:222, 15:235, 35:01:01:01-35:01:21, 35:01:23-35:01:29, 35:05:01-35:05:02, 35:07, 35:10, 35:16-35:17, 35:19, 35:23, 35:25-35:27, 35:30, 35:32:01-35:32:02, 35:37, 35:40N-35:42:02, 35:46-35:49, 35:52, 35:54, 35:57, 35:63, 35:68:01-35:68:02, 35:71, 35:77-35:78, 35:82, 35:89-35:92, 35:94, 35:97, 35:101:01-35:101:02, 35:103-35:104, 35:107-35:108:02, 35:110-35:113, 35:116, 35:119-35:126, 35:130N-35:134N, 35:137-35:139, 35:143-35:148, 35:159, 35:161, 35:165N, 35:168, 35:170-35:171, 35:173N, 35:175, 35:177-35:178, 44:43:01-44:43:02, 46:13:01-46:13:03, 46:19, 46:26, 48:02:01-48:02:02, 56:09, 57:01:01-57:01:02, 57:01:04, 57:01:06-57:01:11, 57:06, 57:08, 57:10-57:11, 57:15-57:16, 57:18, 57:20-57:21, 57:23, 57:29, 57:33-57:38, 57:40-57:41, 57:44-57:45, 57:48-57:52, 58:26
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13	14	15	16	17	18	19	20	Well No.
90	95	105	160	275	140	125	60	Length of spec.
	130	205						PCR product(s)
13	14	15	16	17	18	19	20	Well No.

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13	14	15	16	17	18	19	20	Well No.
90	95	105	160	275	140	125	60	Length of spec.
	130	205						PCR product(s)
13	14	15	16	17	18	19	20	Well No.
								*15:75, 15:105, 15:111N, 15:145
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			16		18			*27:52
13	14	15	16	17	18	19	20	Well No.
90	95	105	160	275	140	125	60	Length of spec.
	130	205						PCR product(s)
13	14	15	16	17	18	19	20	Well No.
		15	16					*35:02:01-35:02:04, 35:83, 35:95, 35:129N, 35:154
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13	14	15	16	17	18	19	20	Well No.
90	95	105	160	275	140	125	60	Length of spec.
	130	205						PCR product(s)
13	14	15	16	17	18	19	20	Well No.
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							20	C*04:08, C*05:39
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13	14	15	16	17	18	19	20	Well No.
90	95	105	160	275	140	125	60	Length of spec.
	130	205						PCR product(s)
13	14	15	16	17	18	19	20	Well No.
								C*06:20, C*07:81
								C*07:68, 07:140, 07:151
								C*07:168
								C*15:39
13	14	15	16	17	18	19	20	Well No.