WORKSHEET

Micro SSP™ Japanese HLA Class I and II ABCDRDQ DNA Typing Tray, Lot #007

Cat #SSPJPN

☐ Patient ☐ Male
☐ Donor ☐ Female

Name | Race | ABO/Rh

Sample I.D. | Birthdate | Relationship to Patient

Disease | DNA Extraction Method | DNA Concentration | Taq Lot #

Results

Comments:

(For multi-test trays)

Load Position:

1	7
2	8
3	9
4	10
5	11
6	12

Test No.

Tray Exp. Date

Tray Dot #

D-mix Lot #/Batch #

(384-Well Format Only)

Load Position: ☐ 1 ☐ 2 ☐ 4 ☐ 3

Test No.:

Test Performed by | Date

Read by | Date

Reviewed by | Date

Photo Documentation

	H	G	F	E	D	C	B	A	Tray Position
Well #	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	1
bps	200	150 - 250	200	200	175 - 225	75 / 100	175	100	
Well #	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	2
bps	175	200	100	175 / 200	175 / 200	225	100	100 / 225	
Well #	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	3
bps	75	125	225 / 250	175	200	200	125	150	
Well #	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	4
bps	75	175 / 200	200	100	175 - 225	150 / 200	225	150	
Well #	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	5
bps	100	125	175	150 / 225	125 / 150	225	325	100 / 125	
Well #	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	6
bps	275	125	125	150	125	150	125	150	
Well #	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	7
bps	200	150 / 225	100	175	100	150	100	225	
Well #	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	8
bps	275	200	100 / 275	250	175	150	225	200 / 225	
Well #	**65**	**66**	**67**	**68**	**69**	**70**	**71**	**72**	9
bps	150	150	100	250	100	200	200	150	
Well #	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	10
bps	125	200	175	125	200 / 225	100	100 - 325	150 / 175	
Well #	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	11
bps	125 / 150	175	150 - 225	175	200	250	200	200	
Well #	**89**	**90**	**91**	**92**	**93**	**94**	**95**	**96**	12
bps	175	225	225	200	225	125	125	200	

Notes on bps:
Well# 2 (1G): 150 / 175 / 200 / 225 / 250
Well# 79 (10B): 100 / 125 / 150 / 275 / 325
Well# 5 (1D): 175 / 200 / 225
Well# 83 (11F): 150 / 175 / 200 / 225
Well# 29 (4D): 175 / 200 / 225

The allele nomenclature includes the HLA alleles listed in the July 2015 update of the IMGT/HLA database release 3.21.1 (Robinson J, et al., "IMGT/HLA and IMGT/MHC: sequence databases for the study of the major histocompatibility complex" Nucleic Acids Research (2003), 31, 311-314). Complete update information is located at www.ebi.ac.uk/imgt/hla/.

Revision summary: July 2015 nomenclature update based on IMGT/HLA database version 3.21.1.

(5D) C*06:125 was added to the primer specificity to better define its reactivity.

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(7B) Bw6 (w/o B*07:13; B*07:97; B*07:110; B*07:179; B*07:192; B*07:195; B*07:244; B*08:29; B*08:36; B*08:97; B*08:101; B*08:114; B*08:131; B*08:136; B*08:139; B*14:01:05; B*14:02:05; B*14:02:08; B*14:30; B*14:34; B*15:01:25; B*15:01:27; B*15:277; B*15:311; B*15:354; B*18:01:21; B*18:45; B*18:99; B*35:01:39; B*35:02:03; B*35:17:02; B*35:152; B*35:222; B*35:248; B*35:293; B*39:01:15; B*39:24:02; B*39:100; B*39:104; B*39:105; B*40:01:31; B*40:02:22; B*40:76; B*40:127; B*40:135; B*40:193; B*40:212; B*40:217; B*40:218; B*40:223; B*40:281; B*40:306; B*41:02:02; B*41:05; B*41:26; B*45:16; B*46:48; B*48:20; B*48:36; B*50:38; B*54:01:01; B*54:01:02; B*54:01:03; B*54:01:04; B*54:01:05; B*54:01:06; B*54:01:07; B*54:02; B*54:03; B*54:04; B*54:06; B*54:07; B*54:09; B*54:10; B*54:11; B*54:13; B*54:14; B*54:15; B*54:16; B*54:17; B*54:18; B*54:19; B*54:20; B*54:21; B*54:22; B*54:23; B*54:24; B*54:25; B*54:26; B*54:27; B*54:28; B*54:29; B*54:30; B*54:31; B*54:32; B*54:33; B*54:34; B*55:01:13; B*55:73; B*56:07; B*56:21; B*67:02; B*81:06):
B*07:02:01~12/14~26/28~35/37/39~80/82~96:02/98~109/111N~148/150~178/181N~191/193~194/196~218/220~235/237~243/245~256;
B*08:01:01~01:31/04~28/30N~35/37~51/53:01~66/68~77/79~96/98~100/102~113/115~116/118~125/127~130/132~135/137~138/140~151; B*13:09/39/67;
B*14:01:01~01:04/01:06~02:04/02:06~02:07/02:09~29/31~33/35~49;
B*15:01:01:01~01:24/01:26/01:28~12/14~15/18:01~21/25:01~35/37~42/44~66/68~86/88/90~94N/96~114/116~156/158~161/163~167/169~176/178~195/197~207/209N~215/217~221/223~229/231~253/255/257~267/269~272N/274~276/278~310/312~338/340~353/355/357~360/363; B*18:01:01:01~01:20/01:22~08/10~44:02/46~53/55~66/68~98/100~113; B*27:08/12/18/26/33/40/42/44/89;
B*35:01:01:01~01:38/01:40~02:02/02:04~17:01/18~151/153~172/174~221/223~247/249~292/294~296; B*37:05/11/37; B*39:01:01:01~01:14/01:16~24:01/25N~99/101~102;
B*40:01:01~01:30/01:32~02:21/02:23~12/14:01~18/20~46/48~75/77~95/97~108/111~116/118N~126/128~134/136~156/158~187/189~192/194~200/202~211/213~216N/219~222/224~280/282~291N/293~305/307~309; B*41:01:01~02:01/02:03~04/06~25/27~39; B*42:01:01~21; B*44:09/46/75/90/129/131; B*45:01:01~15; B*46:01:01~47/49~64; B*47:02; B*48:01:01~17/19/21~35/37; B*50:01:01~37/39~43; B*55:01:01~01:12/01:14~71/74~75; B*56:01:01:01~06/08~20:02/22~45/47~49; B*57:12; B*58:64; B*67:01:01~01:03/03~05; B*73:01~02; B*78:01:01~08; B*81:01~05/07; B*82:01~03; B*83:01

(7C) Bw4 (w/o B*13:28; B*27:05:25; B*27:49; B*27:116; B*27:122; B*37:24; B*44:03:16; B*44:111; B*44:127; B*44:145; B*44:172; B*44:200; B*49:21; B*51:01:14; B*51:67; B*51:159; B*51:171; B*52:01:19; B*52:04; B*52:34; B*52:35; B*53:10; B*57:01:08; B*57:08; B*57:34; B*58:42; B*58:54): B*07:27/36/38/81/149/180/219/236; B*08:02~03/52/78/117/126;
B*13:01:01~08/10~27/29~38/40~66/68~84; B*15:13:01~13:02/16:01~17:03/23~24:02/36/43/67/87/89/95/115/157/162/168/177/196/208/216/222/230/254/256/268/273/339/356/361~362; B*18:09/54/67;
B*27:01~05:24/05:26~07:04/09~11/13~17/19~25/27~32/34~39/41/43/45~48/50:01~88/90:01~115/117~121/123~142; B*37:01:01~04:02/06:01~10/12~23/25~36/38~56; B*38:01:01~57;
B*40:13/19/47/96/109~110/117/157/188/201/292; B*44:02:01:01~03:15/03:17~08/10~45/47~74/76~89/91~110/112~126:02/128/130/132~144/146~171N/173~199/201~223; B*47:01:01:01~01:02/03~10;
B*48:18; B*49:01:01~20/22~39; B*51:01:01:01~01:13/01:15~66/68~109/111~158:02/160~170/172~190; B*52:01:01:01~01:18/01:20~03/05~33/36~50; B*53:01:01~09/11~39; B*54:12; B*56:07/21/46;
B*57:01:01~01:07/01:09~07/09~11/13~33/35~79N; B*58:01:01:01~41/43~53/55~63/65~72N; B*59:01:01:01~09

(9F) C*03:274, C*04:194, C*07:401, C*17:27N were removed from the primer specificity to better define its reactivity.

Allele sequences are obtained from the IMGT database. Updates, including modifications to allele sequences may alter bead specificity.

This tray is intended for low resolution HLA typing results. Typing results outside this specification may produce ambiguities that require additional testing to resolve.

The following alleles are not included in this kit: None

C*02:08 and C*02:42 are not within the target loci of this kit, but share the same reaction pattern as A*30:41. The reaction pattern table has been modified to group C*02:08/42 with A*30:41.

C*16:85 shares the same reaction pattern as B*27:04:02 et al. The reaction pattern table has been modified to group C*16:85 with
B*27:04:02~04:03/05:06/05:08~05:09/05:11~05:17/05:19~05:22/05:24/05:26~05:30/15/27~28/31/39/45~46/48/50:01~51/54~56/58~61/64N/70~74/78~80/82/84~88/90:01~91/93~94N/96:01/97~101/103~105/107~108/120~121/123~124/129/132~133/135/137~138/140~142; B*44:64:01~64:02; B*47:01:01:01~01:02/04~10; B*57:13/19/30.

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Name _____ Sample ID _____

A Locus

Reaction Results (mark positive locations)

Serology Equivalent	A Locus Allele Group	1								2								3								6								8							
		H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	41	42	43	44	45	46	47	48	57	58	59	60	61	62	63	64
A1, A"Blank", A-	A*01:01:01:01~01:11/ 01:13~01:54/01:56~01:65/ 01:67~09/11N/14~16N/18N/ 20/22N~25/27N/29/31N~50/ 52N~71/73~78/80~94/96~98/ 100~101/103~135/137~142/ 144/146~166/168~189	1																																							
A-	A*01:13	1		3					8																																
A-	A*01:143	1									10																														
A-	A*01:17; A*03:18	1		3																																					
A-	A*01:28	1							8																																
A-	A*01:51	1					6																																		
A-	A*01:95	1										11																													
A2, A2"Low", A-, A203, A210, A"Blank"	A*02:01:01:01~49/51~54/ 57~72/74:01~76:01/77/ 79:01~102/104~121/123~ 127/129~134/136~155/157~ 242/244/246~333/335~337/ 339~580; A*03:89		2																																						
A-, A68, A28, A"Blank"	A*02:122; A*68:01:01:01~ 04/06~14/16~19/21:01~28/ 30~45/47/49N/51~83/85~ 108/110~116/118~128/130~ 134													13																											
A-	A*02:135		2					7																																	
A-	A*02:243:01~243:02		2										12		14																										
A-, A2	A*02:50/73/156/245/334/ 338		2											13																											
A-	A*02:55		2				6																																		
A-	A*02:56:01~56:02/103		2	3																																					
A3, A"Blank", A-	A*03:01:01:01~01:03/ 01:05~07/09~11N/13~17:02/ 19~22:02/25~28/30~31/33/ 35/37~40/42~58/60~62/64~ 69N/71/73~74/76~87/90~ 106/109~151/153~170/173~ 175/177~197N/199~204/206~ 209/211~218/221~229; A*30:55; A*74:13			3																																						
A-	A*03:171			3										13																											
A-	A*03:205; A*29:14/18; A*31:89										10				14																										
A-	A*03:210			3																																	60				
A-	A*03:219; A*32:17			3								11																													
A-	A*03:63; A*11:199:01~ 199:02/222			3					8																																
A-	A*03:75			3		5																																			

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A Locus

		1								2								3								6								8							
		H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A
Reaction Results (mark positive locations)																																									
Serology Equivalent	**A Locus Allele Group**	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	41	42	43	44	45	46	47	48	57	58	59	60	61	62	63	64
A-, A11, A"Blank", A34, A66	A*03:88; A*11:01:01:01~01:50/01:52~02:01/02:03~05/07~11/13~16/19~39/41~42/44/46~56/58~110/112~115N/117~138/141~157/160~177/179~189/191~198/200~221; A*34:01:01~08/10N~12; A*66:01:02/10; A*69:02; A*80:02								8																																
A-, A66, A10	A*11:116/140; A*66:01:01/01:03/04~09/13~15/17~20/22~23							7	8																																
A-, A9	A*11:139; A*24:19/44					5			8																																
A-, A32, A"Blank"	A*11:178/190; A*32:01:01~01:20/01:22~14/16/18~38/40~41/43~49/52~70/72~74											11																													
A-	A*11:43								8		10				14																										
A-	A*11:57/158								8					13																											
A23, A-, A"Blank"	A*23:01:01~01:12/01:14~08N/10~13/15~23/25~27/29~33/35~56/58~62/64~65/67~69; A*24:24				4																																				
A23	A*23:01:13		2		4																																				
A-	A*23:09/28				4							11																													
A-	A*23:14:01~14:02; A*24:71				4	5																																			
A-	A*23:63				4																													57							
A24, A24"Low", A-, A2403, A"Blank", A9, A36	A*24:02:01:01~02:05/02:07~02:57/02:59~13:02/15~18/20~23/25~43/45N~50/53~56/58~63/66~70/72~76/78~80/82~91/95~104/106~119/121~137/139~187/189~190/192~221/223~227/229~232N/234~290/292~308/310:01~314; A*31:08; A*33:21/53; A*36:03					5																																			
A24	A*24:02:06/02:58		2			5																																			
A-	A*24:309					5												17																							
A-	A*24:77/191					5						11																													
A25, A-, A"Blank", A26, A43	A*25:01:01~05/07~17/19:01~32; A*26:07:01~07:02/19/31/72/76/92; A*43:01; A*66:11~12							7																																	

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Name _____ Sample ID _____

A Locus

Reaction Results (mark positive locations)

Serology Equivalent	A Locus Allele Group	1								2								3								6								8							
		H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	41	42	43	44	45	46	47	48	57	58	59	60	61	62	63	64
A26, A10, A-, A"Blank"	A*26:01:01~01:17/ 01:19~01:20/01:22~01:29/ 01:31~06/08/10~18/20~28/ 30/32~33/35~39/41~48/50~ 71N/74~75/77~90/93~102/ 104~112/114~116						6	7																																	
A26	A*26:01:18						6	7																							46										
A26, A-	A*26:01:21/09/29/34/40/ 49/73/91/103/113						6																																		
A26	A*26:01:30						6	7						13																											
A29, A"Blank", A-	A*29:01:01:01~06/08N~13/ 15~17/19/21~29/31~33/35~ 36/38/40~47/50/52~55/57~ 72/75~80														14																										
A-	A*29:07/49				4										14																										
A-	A*29:48												12		14																										
A-	A*29:51/73													13	14																										
A30, A-, A30"Low", A"Blank"	A*30:01:01~01:07/01:09~ 06/08~11:02/14L~15/17/19~ 20/23~30/32~40/42~43/45/ 47~54/56~59N/61~94									9																															
A-	A*30:07/13/16/22/44/46		2							9																															
A-, Cw2, C-	A*30:41; C*02:08/42																																	57							
A31, A"Blank", A-	A*31:01:02:01~01:22/ 01:24~02/04~06/09/11~20/ 22~23/25~28/30~88/90~98										10																														
A-	A*31:03								8		10																														
A-, A31	A*31:07/10; A*32:42										10	11																													
A-	A*31:24							7			10																														
A-	A*31:29				4						10																														
A-	A*32:39																	17																							
A-	A*32:51											11																						57							
A33, A-, A19, A"Blank"	A*33:01:01~12/14~18:02/ 20/22~23/25~47/49~50/52/ 54~60/62~68/70~85/87~91/ 93~102												12																												
A-	A*33:13/48						6						12																												
A-	A*33:19					5							12																												
A-	A*33:24						6						12		14																										
A-	A*33:61							7					12																												
A-	A*33:86												12																					57							
A68, A-	A*68:05/15/20/46/84/109						6							13																											
A-	A*68:29												12	13	14																										

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C Locus

Reaction Results (mark positive locations)

Serology Equivalent	C Locus Allele Group	3								4								5								6								7								8								9							
		H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
Cw1, C-, C"Blank"	C*01:02:01~03/05~16/18~ 20/22/24~42/44~47/49~53/ 56N~72/76~89N/91~96/98N~ 101/103~111N																																								56																
C-	C*01:04/54/97/102; C*14:58																																								56										66						
C-	C*01:17/23																																								56											67					
C-	C*01:21																																								56										66	67					
C-	C*01:43																																								56									65							
C-	C*01:48																																								56				60												
C-	C*01:55																																								56			59													
C-	C*01:73																																			51				55	56																	
C-	C*01:90														30																										56																
Cw2, C-, C"Blank"	C*02:02:01~02:25/02:27~ 05:03/07/09~11/13/15~20/ 22/24~25Q/27:01~32/34~35/ 37~40:02/44~48/50~54/56~ 61/63~67Q/69~74/76~86/88~ 93/95~100/102~106; C*15:11; C*16:34																																									57			60												
Cw2, C-, Cw10, Cw3	C*02:02:26/21/26:01~ 26:03/101; C*03:02:13/ 04:07/04:27/14/40:02/ 41:01~41:02/87:01/94/110/ 113/263/293; C*15:02:10/ 02:17/06:02/17/43/99																																												60											
C-	C*02:06/36								24																																	57			60												
A-, Cw2, C-	A*30:41; C*02:08/42																																									57																
C-	C*02:12/55																																									57			60							67					
C-	C*02:14:01~14:02																																									57			60			63									
C-	C*02:23		18						24																																	57			60												
C-	C*02:43																																									57			60						66						
C-	C*02:49; C*04:15:01~15:03/ 17/23/37/60/74/80/100/ 108/178																																													61						67					
C-	C*02:62																				36																					57			60												
C-	C*02:68														30																											57			60												
C-	C*02:75; C*16:26/46/55																																													61											
C-, Cw8, C"Blank"	C*02:87; C*08:01:01~04:03/ 06~07/09/11~12/14~15:02/ 17/20/22~24/26N~27/29~ 36N/38~50/52N~54/56~67/ 69~93/95~100/102~104/106~ 112/115~123																																																		65							
C-	C*02:94																																									57			60		62											

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C Locus

Reaction Results (mark positive locations)

Serology Equivalent	C Locus Allele Group	3								4								5								6								7								8								9							
		H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
Cw10, C-, Cw3, C"Blank"	C*03:02:01~02:12/02:14/ 04:01:01~04:06/04:08~ 04:17/04:19~04:26/04:28~ 04:37/04:39~10/17/19/23~ 26/28~29/33~35/40:01/ 40:04/42/44/46~48/51/54/ 57/63/65/70~74/78/82/84/ 87:02/89~93/95/98/100~ 101/104~106/108~109/111/ 114~115/117~118/121N/123/ 125/128~129/131/134~135/ 138~140/143/145~149/153~ 157/159/162/164/166/169Q~ 170/172~174/178~181/183~ 184:02/186:01~186:02/190~ 191/193~194/197~201N/ 208N~213/215~216/218~219/ 221~222/224N~226/232~236/ 238~240/244Q~245/247~250/ 252/255~259/261/264~266/ 269~270/277N~279/282~283/ 286/292/294																																																									
Cw9, C-, Cw3, C"Blank"	C*03:03:01~03:04/03:06~ 03:20/03:22~03:29/11:01~ 13:02/18:02/20N/22Q/30~ 31/43:01/49~50/52~53/55~ 56/59/61~62/66/68/75~76/ 79/81/83/85/88/96~97/103/ 112/116:01~116:02/120/ 122/124/126~127/132~133/ 141/150/152/158/160~161/ 167~168/171/175~177/185/ 188~189N/192/196/202~207/ 217/223/227~230/237/241~ 243/253~254/262/268/271~ 276/284~285/288~291																																																									
Cw9	C*03:03:05											27																																															
Cw9, Cw10, C-	C*03:03:21/04:38/18:01/ 32/37:01~37:02/45/60/ 64:01~64:02/107/144/195/ 295																																																									
Cw10, Cw3	C*03:04:18/40:03											27																																	60													
C-	C*03:137						22																																						60													
C-	C*03:15/136/297																																																				67						
C-	C*03:16; C*14:41; C*15:27																																												60								66						
C-	C*03:182						22																																				58															
C-	C*03:187																																				52						58	59														
C-	C*03:21/142																				36																						58	59														
C-	C*03:231																																										58											68				
C-	C*03:260		18																																										60													

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C Locus

Reaction Results (mark positive locations)

Serology Equivalent	C Locus Allele Group	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
		3								4								5								6								7								8								9							
		H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A
C-	C*03:27/38:01~38:02/130/163/246																																										58		60							67					
C-	C*03:280																																										58		60					65							
C-	C*03:287																				36																						58		60												
C-	C*03:296																																	49			52						58		60												
C-	C*03:36/77																																				52						58		60												
Cw3	C*03:39																																										58							64							
C-	C*03:43:02/58/86/102/119/151/165/214/220/251/267; C*18:09																																											59													
C-	C*03:67																																										58	59						64							
C-	C*03:69																																										58	59									67				
C-	C*03:80																				36																								60												
Cw4, C-, C"Blank"	C*04:01:01:01~01:09/01:11/01:13~01:20/01:22/01:24~03:01/04:01~09N/13~14/16/18~20/24~26/28/30~32/35/38~41/43~51/53/57~59Q/61~70/72~73/75~76/78~79/81~99/101~106/109~111/113~115N/117~128/131~133/135~152/154~168/170N~171/173N~177/179~186/189~191N/193/195~206																																											59			61							67					
Cw4, C-	C*04:01:10/01:12/01:23/27/33/52/116/130/187																																											59									67					
Cw4, C-	C*04:01:21/03:02/10/12/56/134/153/192/194																																											59			61											
C-	C*04:107																																									57		59	60								67					
C-	C*04:11/55																																											59										68				
C-	C*04:112																																											59			61						67		69			
C-	C*04:129																																											59			61	62					67					
C-	C*04:169; C*15:12																																											59											69			
C-	C*04:172																																											59									67	68				
C-	C*04:188																32																											59			61						67					
C-	C*04:29																																											59			61						67	68				
C-	C*04:34																																				52							59			61						67					
C-	C*04:36																																											59			61							68				
C-	C*04:42:01~42:02																																											59			61		63				67					
C-	C*04:54; C*06:76:02; C*12:28/132/135/146																																														61					66	67				
C-	C*04:71																																								56			59			61						67					
C-	C*04:77		18																																									59			61						67					
Cw5, C-, C"Blank"	C*05:01:01:01~01:27/01:29~03/05~19/21~24/27~28/31/33~35/37~41/44:01~45/47~57/59~63/65~69/71~91N/93~102/104~122; C*08:10																																														62										
C-	C*05:04:01~04:02/103; C*12:21/33																																														62				66						
C-	C*05:25																																													61	62										
C-	C*05:26																																									57						62										
C-	C*05:30																				36	37																										62										
C-	C*05:36																																														62								69		
C-	C*05:42																																													61	62					67					
C-	C*05:43																																														62	63									
C-	C*05:46; C*17:05																																														62					67					
C-	C*05:58:01~58:02																																												60		62										
C-	C*05:64:01~64:02																																											59			62										
C-	C*05:70																32																														62										

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C Locus

Reaction Results (mark positive locations)

Serology Equivalent	C Locus Allele Group	3								4								5								6								7								8								9							
		H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
Cw6, C-, C"Blank"	C*06:02:01:01~02:05/ 02:07~02:10/02:13~02:25/ 02:27~02:44/04/06~07/10/ 13/15~16N/18~30/32~33/35~ 39/41~43:02/45~58/60~66/ 68/70:01~71/73~75/78~84/ 86~88/90~95/97~102/104~ 106:02/108~117/119~121/ 123/126~129/131/133~142/ 145~146/148~152N/154~156/ 158~160/162~164																																															63			66							
Cw6, C-, C"Blank"	C*06:02:06/02:12/03:01~ 03:02/69/76:01/77/132:01; C*12:02:11/03:09/03:26/ 05/09/17/49/79/84N/93/97~ 98/129; C*14:12/34/56; C*16:40/53																																																	66							
Cw6, C-	C*06:02:11/02:26/08~09/ 12/31/34/59/96/103/107/ 118/130/144/153/157/161; C*07:76:02/238/328/403/ 406																																															63										
Cw6	C*06:05																																												61	62	63			66							
C-	C*06:11/122/124																																																64	66							
C-	C*06:125																				36	37																										63			66							
C-, C"Blank"	C*06:132:02; C*12:02:01~ 02:10/02:12~03:02/03:04~ 03:08/03:10~03:25/03:27~ 04:02/06~07/10:01~13/ 18:01~20/22~27/29~30/32/ 34~43/45~48/50~54/56~78/ 80N/85~92/94~96/99~105N/ 107~112/114~118/120~121/ 123~126/128/130~131/133~ 134/136~138/142~143/145/ 148N~150/152~157/159~162; C*14:04/49/64																																																	66	67						
C-	C*06:14/72/143																				36																											63			66							
C-	C*06:147																	33																																	66							
C-	C*06:17																																															63			66	67						
C-	C*06:40																32																															63			66							
C-	C*06:44																																															63	64		66							
C-	C*06:67																																													62	63			66							
C-	C*06:85													29																																	63			66							
C-	C*06:89								24																																						63			66							

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C Locus

Reaction Results (mark positive locations)

Serology Equivalent	C Locus Allele Group	3								4								5								6								7								8								9							
		H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
Cw7, C-, C"Blank"	C*07:01:01:01~01:12/ 01:15~01:33/01:35~01:40/ 01:42~02:07/02:10~02:28/ 02:30~02:32/02:34~02:40/ 02:42~02:53/02:55/02:57~ 03/05~06/08/10/13~25/ 27:01~32N/35~37/41~44/46~ 48/50~62/65~67/70~75/77~ 91/93~95/97~100/103~104N/ 106~123/125~131:02/133~ 136/138/140~141:02/143~ 147/149~151/153~154/157~ 160/162~164N/166~176/178~ 180/182~188/190~198N/200~ 209/211~233/235Q~237/239~ 240/243~245/248~266/268~ 271/273~293/297~301/303/ 305~306/308~313/316/318/ 320~321/325~327/330~334/ 337/339~344/346~350N/352~ 353/356/359~360/362~363/ 366~377/379~393N/396~400/ 404/407~413/417~419/421~ 425/427/429~440/442~446																																																	64			67				
Cw7, C-, C"Blank"	C*07:01:13/01:34/01:41/ 02:08/02:29/02:54/04:01~ 04:10/11~12/39~40/45/63/ 68/105/124/142/152N/156/ 177/181/189/199:01~ 199:02/234/272/302/319/ 323~324/329N/336/338/345/ 354~355/358/364~365/378/ 394~395/401/405/416/420/ 426/428; C*16:21/80																																																	64							
Cw7, C-, C"Blank"	C*07:01:14/02:33/02:41/ 02:56/26/33N/92/96:01~ 96:02/132/246/267/296/ 314:01~314:02/317/322/ 415; C*08:25; C*12:03:03/ 14:01~14:02/31/83/106/ 119/122/139/141/144/151/ 158; C*16:15:01~15:02/25; C*17:01:01:01~04/06~19/ 21~26/28~30																																																				67							
Cw7	C*07:02:09																																													61			64			67				
C-	C*07:07/09/247																																															63	64			67				
C-	C*07:101; C*08:37																																																64	65							
C-	C*07:102						22																																										64			67					
C-	C*07:137:01~137:02																32																																64			67					
C-	C*07:148/161																																																64	65		67					
C-	C*07:165/241/304/307; C*12:16/147																																																64		66	67					
C-	C*07:210																																															63	64								
C-	C*07:242																																										58						64			67					
C-	C*07:294																						38																										64			67					
C-	C*07:335																																		50														64								
C-	C*07:351						22																																													67					
Cw7	C*07:38:01~38:02																															47																	64			67					
C-	C*07:414																																							55									64			67					
C-	C*07:441																				36	37																											64			67					
C-, Cw7	C*07:49/76:01/315; C*17:20																																															63			67					
C-	C*07:64/402																																																		67	68				

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C Locus

Reaction Results (mark positive locations)

Serology Equivalent	C Locus Allele Group	3								4								5								6								7								8								9							
		H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
C-	C*07:69																																48																64			67					
C-	C*08:05/21																																																	65		67					
C-	C*08:08:01~08:02																						38																											65							
C-	C*08:105																																												60					65							
C-	C*08:113																																																	65	66						
C-, Cw8	C*08:19/101																																											59						65							
C-	C*08:28																																													61				65							
C-	C*08:51/114					21																																												65							
C-	C*08:68																																48																	65							
C-	C*12:08/81																																																		66	67		69			
C-	C*12:113								24																																										66	67						
C-	C*12:127																																																	65	66	67					
C-	C*12:140																																												60						66	67					
C-	C*12:15								24																																											67					
C-	C*12:44																				36																															66	67					
C-	C*12:55																																																		66	67	68				
C-	C*12:82						22																																												66	67						
C-, C"Blank"	C*14:02:01~02:19/05~11/ 13~14/16/18~19/21N/23~ 24:02/27~33/36~37/39~40/ 42~48/50~52/57/59~60/62/ 65~66/68~69																																																		66		68					
C-, C"Blank"	C*14:03/22/35N/61																																												60						66		68				
C-	C*14:15/17/20/25~26/55/71																																																				68				
C-	C*14:38/53~54																																												60								68				
C-	C*14:63																32																																		66		68				
C-	C*14:67																																									57									66		68				
C-, C"Blank"	C*15:02:01:01~02:09/ 02:11~02:16/02:18~02:24/ 05:01~06:01/06:03~08/13~ 15/18/21~22/26/28~29/31~ 38/40~42/44~50/52~60/64~ 73/75~98/100~106/108~109/ 111~112/114~117; C*16:70																																												60											69
C-	C*15:03																																												60							67		69			
C-	C*15:04:01~04:02/09/19/ 30/61																																												60						66			69			
C-	C*15:10:01~10:03/113																																																				69			
C-	C*15:107																																														62				66			69			
C-	C*15:16																																												60							67					
C-	C*15:23																																												60			63	64					69			
C-	C*15:24/110														30																														60									69			
C-	C*15:25			19																																										61						67					
C-	C*15:39					21																																							60									69			
C-	C*15:51																32																													60									69			
C-	C*15:62																																													61								69			
C-	C*15:63																																															63	64					69			
C-	C*15:74								24												36																								60									69			
C-	C*16:64																																													61						67		69			

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C Locus

		3								4								5								6								7								8								9							
		H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A
Reaction Results (mark positive locations)																																																									
Serology Equivalent	**C Locus Allele Group**	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
B27, B-, B"Blank", B47, C-	B*27:04:02~04:03/05:06/ 05:08~05:09/05:11~05:17/ 05:19~05:22/05:24/05:26~ 05:30/15/27~28/31/39/45~ 46/48/50:01~51/54~56/58~ 61/64N/70~74/78~80/82/84~ 88/90:01~91/93~94N/96:01/ 97~101/103~105/107~108/ 120~121/123~124/129/132~ 133/135/137~138/140~142; B*44:64:01~64:02; B*47:01:01:01~01:02/04~ 10; B*57:13/19/30; C*16:85																																							54																			
C-, C"Blank"	C*18:01~04/06~08																																											59					63										
C-	C*18:05																																											59					63	64			67						

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B Locus

Reaction Results (mark positive locations)

Serology Equivalent	B Locus Allele Group	1	2	3	4	5	6	7	8	9
		H G F E D C B A	H G F E D C B A	H G F E D C B A	H G F E D C B A	H G F E D C B A	H G F E D C B A	H G F E D C B A	H G F E D C B A	H G F E D C B A
		1 2 3 4 5 6 7 8	9 10 11 12 13 14 15 16	17 18 19 20 21 22 23 24	25 26 27 28 29 30 31 32	33 34 35 36 37 38 39 40	41 42 43 44 45 46 47 48	49 50 51 52 53 54 55 56	57 58 59 60 61 62 63 64	65 66 67 68 69 70 71 72
B7, B-, B"Blank"	B*07:02:01~02:02/02:04~ 02:27/02:29~02:33/02:35~ 02:47/07/09/11~12/14/17~ 18:02/20~24/26/28/35/39/ 41/44~47/49N/51~52/57~59/ 61~62/64/66~68:03/70~71/ 74~77/79/82/87~89/91~ 96:02/98~99/101~104/107~ 108/111N/114~121/124/126~ 130/132/135N~136:02/141~ 145/150/152~164/166~175/ 178/181N/184~191/193~194/ 196~200/203~204/208/211~ 212/215~218/220~221/224~ 227/229~231N/233/237~243/ 245~246/248~256			18			50 53 55		
B7, B-	B*07:02:03/30/63/73/109/ 133/148/205/247			18			50 55			
B7, B-	B*07:02:28/10/37/56:02/ 83/125/177/183/232			18			53 55			
B7	B*07:02:34			18			46 50 53 55			
B703, B7, B-	B*07:03/08/16/50/228			18		33	53 55			
B7, B-	B*07:04/55/146			18 24			50 53 55			
B7, B-, B"Blank"	B*07:05:01~05:03/05:05~ 06/80/90/105/112/137~138/ 140/176/182N/201N/210/ 213~214/222			18	30		50 53 55			
B7	B*07:05:04			18	30		50 55			
B-	B*07:100			24			50 53 55			
B-	B*07:110/179/192/195/244			18			50 53			
B-	B*07:123			18	30		44 50 53 55			
B-	B*07:13			18 22			67			
B-	B*07:131			18	27		50 53 55			
B-	B*07:134			18			42 46 50 55			
B-	B*07:147/151:01~151:02						47 50 53 55			
B-	B*07:149			18 20	31		50 53 54			
B7	B*07:15			18			50 53 55			67
B-	B*07:180			18 22	31	33	53 54			
B-	B*07:19			24		38	50 53 55			
B-, B81, B"Blank"	B*07:202; B*81:02~04N/07						47 49 50 53 55			
B-	B*07:206			18	30		53 55			
B-	B*07:219			18	31		53 54			
B-	B*07:223			18	27		49 50 53 55			
B-	B*07:234			18			53 55		60	
B-	B*07:235						43 50 53 55			
B-	B*07:236			18			50 53 54			
B-	B*07:25			18 24			49 50 53 55			
B-	B*07:27		15	18		33	53 54			
B-	B*07:29/86			18			37 50 53 55			
B-	B*07:31/43			18			38 50 53 55			
B-	B*07:32/207			18	30	33	53 55			
B-	B*07:33:01~33:03/42/60/ 106/113/122/139/165						50 53 55			
B-	B*07:34			18	30		38 50 53 55			
B-	B*07:36/81			18	31		50 53 54			
B-	B*07:38		15	18	31	33	53 54			
B7, B-	B*07:40/53				30		50 53 55			
B-	B*07:48/209			18			49 50 53 55			
B-	B*07:54			18			44 50 53 55			
B-	B*07:56:01			18			55			
B-	B*07:65			18			42 55			

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B Locus

Reaction Results (mark positive locations)

Serology Equivalent	B Locus Allele Group	1	2	3	4	5	6	7	8	9
B-	B*07:69			18 22	30	33		53 55		
B-	B*07:72			18			37	53 55		
B-	B*07:78			18	30	35		50 53 55		
B-	B*07:84		16	18				50 53 55		
B-	B*07:85			18 22		33		53 55		
B-	B*07:97			18	30			50 53		
B8, B-, B"Blank"	B*08:01:01~01:04/01:06~01:07/01:09~01:10/01:12~01:31/04~05/08N/10/13~14/18~19N/22~24/26:01/28/30N~31/33~35/39/41~42/44~48/50~51/55/56:02~59:02/61~64/68~71/73~75/77/80~83/86N~88/90~93/95~96/98~100/102~106/108~113/115~116/119~122/124/127~128/130/134~135/137~138/140~142/144~150					33	37 38	49 55		
B8, B-, B55	B*08:01:05/85; B*55:04/49						37 38	49 55		
B8, B-	B*08:01:08/66/94/151					33	38	49 55		
B8, B-	B*08:01:11/26:02/56:01					33	37 38	49 53 55		
B8, B-	B*08:02~03/52/78/117/126		15			33	37 38	49 54		
B8, B-	B*08:07/37			24		33	37 38	49 55		
B8, B-	B*08:09/84; B*55:18		16			33	37 38	55		
B-	B*08:101					33	36 38	44 49		
B-	B*08:11/21/40/125					33	37	49 55		
B-	B*08:118				26	33	37 38	49 55		
B-, B8	B*08:12:01~12:03/16/27/49/76					33	37	55		
B-	B*08:123/132						37 38	49 50 55		
B8	B*08:15					33	37 38	49 55	64	
B-, B8	B*08:17/38/54					33	37 38	44 49 55		
B-	B*08:20/53:01~53:02				30	33	37 38	55		
B-	B*08:25				27	33	37	49 55		
B-, B8	B*08:29/36/97/114/131/136/139					33	37 38	49		
B-	B*08:32/133; B*35:87						38	42 49 55		
B-	B*08:43/143					33	37 38	55		
B-	B*08:60/129			19		33	37	55		
B-, B"Blank"	B*08:65/72N				29	33	37 38	49 55		
B"Blank"	B*08:67N					33	38	49		
B-	B*08:79			18	30	33	37	55		
B-	B*08:89/107; B*15:180			24		33	37	55		
B13, B-, B"Blank"	B*13:01:01~01:10/03/11/17/22:01~25/29/43/50/52/57/60~61/63N~64/73/76N~78/80			20	25		35	54		
B13, B-, B"Blank"	B*13:02:01~02:18/08/18/27/32~34/37~38/40~42/44~45/47/49N/54~56:02N/65~66/68~70/74~75/81~82/84			20	25		35	50 54		
B-	B*13:04/26:01~26:02			20	25			43 54		
B-, B13	B*13:06/10/12:01/13:01~13:02/21/51/79			20	25			54		
B"Blank"	B*13:07N			20			35	54		
B-	B*13:09			23	25		35 48	50 55		
B-	B*13:12:02				25			54		
B-	B*13:14			20	25		35 46	50 54		
B-	B*13:15			20 21	25 26		35	50 54		
B-	B*13:16/31			20	25 30		35	50 54		

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B Locus

Reaction Results (mark positive locations)

Serology Equivalent	B Locus Allele Group	1	2	3	4	5	6	7	8	9
B-	B*13:19			20		35		50 54		
B-	B*13:20/48			20	25 30	35		54		
B-	B*13:28			20	25	35				
B-	B*13:30				25	35		50 54		
B-	B*13:35	16		20	25		43	50 54		
B-	B*13:36	15		20	28	35		54		
B-	B*13:39				25	35	41	55		
B-	B*13:46/53	16		20	25	38		54		
B-	B*13:58			20		35 40		50 54		
B-	B*13:59	16		20	25			50 54		
B-	B*13:62	16		20	25 26 27 30			54		
B-	B*13:67				25	35		50 55		
B-	B*13:71			20	25			49 54		
B-	B*13:72			20	25		43	50 54		
B-	B*13:83			20	25	35	46	54		
B64, B"Blank", B-	B*14:01:01~01:03/07N~08:02/10/12/14/26/32/40/47			21 22		33		55		
B64	B*14:01:04			21 22		33		53 55		
B64	B*14:01:05			21 22		33				
B64, B65, B14, B-, B"Blank"	B*14:01:06~02:04/02:06~02:07/02:09~02:12/03~04/06:01~06:02/09/15~18/20/22/24~25/29/31/36/38~39/41N~45/48~49			21		33		55		
B65, B-	B*14:02:05/02:08/30/34			21		33				
B65	B*14:02:13			21		33		53 55		
B-	B*14:05			21		33 38		55		
B-	B*14:11/28			21	29	33 37		55		
B-	B*14:13				26 30	33 38		55		
B-	B*14:19			21 22	27	33		55		
B-	B*14:21			21				50 55		
B-	B*14:23; B*18:37					33	43	55		
B-	B*14:27			21	27	33		55		
B-	B*14:33					33		55		
B-	B*14:35			21				55		
B-	B*14:37			21	30	33		55		
B-	B*14:46; B*39:30/70/82			22		33		55		
B62, B"Blank", B-, B76, B15	B*15:01:01:01~01:18/01:20/01:22~01:24/01:26/01:28~01:30/01:32~01:39/04:01~04:02/07:01~07:03/12/14/19/26N~28/32:01~35/38:01~38:02/45/56/60/63/70/75/78:01~79N/81~82/92/96~97/102/104~105/109~111N/113/116~118/125~126/129/140~142/145~147/152/159~160/163~167/169/172/174/178~179:02/181N~184/187/190N/192~193/201/203/205~207/211/217~218Q/225/227~228/231/234/236/244~245Q/247~248/257~258N/260~262N/264/267/269~270/272N/276/278~280/286~287/295~296/298~299/304N/309/316/320~321Q/326~327/331/333~334/340/343~344/346~353/355/359/363			23 24 25				55		

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B Locus

Reaction Results (mark positive locations)

Serology Equivalent	B Locus Allele Group	1	2	3	4	5	6	7	8	9
B62, B-, B"Blank"	B*15:01:19/101/120/149N/246N/285	23 24						55		
B62, B-	B*15:01:21/57/135/318	24	25					55		
B62, B-	B*15:01:25/01:27/277	23 24	25							
B62, B-	B*15:01:31/65/84/86/128/137/188/224/232~233/237/300/317/322/342	23	25					55		
B75, B-, B"Blank"	B*15:02:01~02:03/02:05~02:09/88/139/170/213~214/291/301~302N/319/325/328/330/341/345/357~358	23	27 28				41	55		
B75	B*15:02:04	23	28				41	55		
B72, B70, B-	B*15:03:01~03:02/03:04/61/91/103/123/127/131~132/151/158/173/210/220/253/266/281~282		27		33 37		43 44	55		
B72	B*15:03:03		27		33 37		43 44	53 55		
B72, B15, B-	B*15:03:05/29/64:01		27		33 37		43	55		
B62, B-	B*15:05:01~05:02/39:01~39:02/155/185/195/288/310/332	23	25 27				43	55		
B62, B-	B*15:06/48/107/219/360	23	25 27					55		
B75, B-, B62, B"Blank"	B*15:08:01~08:02/11:01~11:06/15/76/148/191/209N/215/284/305	23 24	28					55		
B70, B-	B*15:09/229/329		27 29 30		33 37			55		
B71, B-, B"Blank", B70	B*15:10:01/10:03~10:04/18:01~18:02/18:04~18:06/37/90/133~134/153/161/176/197~198/200/226N/263/275/290/294N/306~307/312~313/335/337~338		27 29		33 37		43	55		
B71	B*15:10:02		27 29		33 37		43	53 55		
B-	B*15:106		27				48	55		
B71	B*15:108		27 29 32		33 37		43	55		
B15	B*15:112	23	27 28					55		
B-	B*15:119		27 29		37		43	55		
B-	B*15:121	23	28				41	55		66
B77	B*15:13:01~13:02	15	27 28					54		
B-	B*15:136	23	25 27 32				43	55		
B-	B*15:138	23	25	18			43	55		
B-, B46, B"Blank"	B*15:143; B*46:01:12/04/16/31/41N/47	24						55		
B-	B*15:144	23	28		36		41	55		
B-	B*15:156		27		33 37		44	55		
B63, B-	B*15:16:01~16:03/67/254/362		30	17			43	54		
B-, B63	B*15:17:01:01~17:03/162/168/177/196/208/216/273/356		27	17				54		
B-	B*15:171	23 24	25					55	57	
B71, B-	B*15:18:03/72		27 29		33 37			55		
B-	B*15:186		29 32		33 37		43	55		
B-	B*15:189	23 24	28 29					55		
B-	B*15:194	23	28				41 43	55		
B62	B*15:20	23	25				41 43	55		
B-	B*15:202/239	24				40	42	55		
B75	B*15:21	23	27 28 29				41	55		
B-	B*15:212; B*41:21; B*45:09	24					45 48	55		
B-	B*15:222			17			43	54		
B-	B*15:223	23	27 28				41 43	55		

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B Locus

Reaction Results (mark positive locations)

Serology Equivalent	B Locus Allele Group	1	2	3	4	5	6	7	8	9
B-	B*15:23/115				27 29	33 37	43	54		
B-	B*15:230		17 18		27			54		
B-	B*15:235				27 32	33 37	43 44	55		
B-, B62	B*15:24:01~24:02/87/157		17	24	25			54		
B-	B*15:241		18	23 24	25			55		
B-	B*15:242/274					33 37	43 44	55		
B-	B*15:243				27 29 30	33 37	44	55		
B-	B*15:249			23	25 32			55		
B-, B62	B*15:25:01~25:03/204/240/250/271			23	25 27		41	55		
B-	B*15:251			23 24	25		44	55		
B-	B*15:252				29 30	33 37		55		
B-	B*15:255				27	37	43 44	55		50
B-	B*15:256			20 24	25			54		
B-	B*15:259			24		33 37		55		53
B-	B*15:265			23	28 32		41	55		66
B-	B*15:268		17		27		43	54		
B-	B*15:283			23	27 28		41	55		52
B-	B*15:289				25 27		41	55		
B-	B*15:293				27 29 30	33 37	43	55		
B-	B*15:297		18	23	27 28		41	55		
B-, B62	B*15:30/58/150/324			23	25 26 30			55		
B-	B*15:303			23	26 28 30	35		55		
B-, B35	B*15:308; B*35:12:01~12:03/59/149/201/266				27		41 42	55		
B75	B*15:31			23	27 28			55		52
B-	B*15:311				27 29	33 37	43			
B-	B*15:315			23 24	25			55	60	
B-	B*15:336			23 24	25		48	55		
B-	B*15:354				27 29	33	43			
B-	B*15:36/339		20		25 27			54		
B-	B*15:361		17		27 30			54		
B-	B*15:40			23	25		43	55		
B-	B*15:42	16		23	25 30	38		55		
B-	B*15:43			24	25			54		
B-	B*15:44			23	28 29		41	55		66
B72, B-	B*15:46/53			24			48	55		
B-	B*15:47:01~47:02					33 37	44	55		
B-	B*15:49				29	33 37	44	55		
B-	B*15:50/199			23 24	25			55		66
B70	B*15:51			24	29	33 37		55		
B70, B-, B15	B*15:52/114/124/238/292/314/323				29	33 37	43	55		
B-	B*15:54			24		33 37	44	55		
B15	B*15:55			23	27 28		49	55		52
B-	B*15:62					33 37	41 43 44	55		
B-	B*15:64:02				27	33	43	55		
B-, B"Blank"	B*15:66/94N/122			23 24	25 29			55		
B35	B*15:68			24		33	44	55		53
B-	B*15:69				32	33 37	43 44	55		66
B-, B62	B*15:71/175			23 24	25		46	55		
B62	B*15:73			23	25 26 30	35		55		
B-	B*15:74/98				27	37	43 44	55		
B-	B*15:77			23	25	36	41	55		
B70	B*15:80				27 29	33 37	41 43	55		
B-	B*15:83	16		23	25	38		55		
B-	B*15:85/154			23 24	25	36	41	55		
B-	B*15:89	15		20	27 28			54		
B71	B*15:93				29	33 37	43	55		66
B-	B*15:95		11		30		43	54		

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B Locus

Reaction Results (mark positive locations)

Serology Equivalent	B Locus Allele Group	1	2	3	4	5	6	7	8	9
B-	B*15:99/221				29	33, 37		55		
B18, B-, B"Blank", B35, B35/22	B*18:01:01:01~01:11/ 01:13~01:20/01:22~07:01/ 08/10~11/17N~18/23N~25/ 28/31~32/34/38~39/42~ 44:02/46~47/50~53/55/59~ 60/62~65/68~78/80~96/98/ 100/102~104/106/109/111~ 112; B*35:24:02/29:01~ 29:02/32:01/37/58/68:01~ 68:02/75~76/98/127/136/ 151/153/186/200/235/255/ 286/288						42, 43	55		
B18, B-	B*18:01:12/07:02/29						42, 43, 46	55		
B18, B-	B*18:01:21/45/99						42, 43			
B18	B*18:09	15	20		31		43	54		
B-	B*18:107						43, 48	55		
B-	B*18:12						42, 43, 44, 40	55		
B-	B*18:13/20~21/40~41; B*35:99/229/232/292						42	55		
B-	B*18:14					38	42, 43, 49	55		
B-	B*18:15						42, 43	55		66
B-	B*18:19			24			42	55		66
B-, B35, B"Blank"	B*18:22/105; B*35:01:01:01~01:38/ 01:40~01:45/03:01~03:02/ 03:04~03:21/07/11:01~ 11:02/15:01~15:02/17:01/ 20:01~21/23~24:01/30/33~ 34/36/40N~42:02/48/52~55/ 57/65Q/70/74/77~78/90~94/ 101:01~101:02/103~104/ 106~108:02/110~113/116/ 119~120/122~126/128/130N~ 132/134N/137~141/143~148/ 150:01~150:02/155/159~ 161/165N~168/170~171/175/ 177~181/189~191/193~196/ 202/204/209/212/216N/218~ 219/221/223~224/227~228/ 237~241/243~247/249~250/ 252~253/256/263/268/272/ 275/279~282/287/289~290/ 295~296						41, 42, 43	55		
B-	B*18:26/61/97				26		42	55		
B-	B*18:27	4					42, 43	55		
B-	B*18:30						42	55		66
B-	B*18:33			22			42, 43	55		
B-	B*18:35/110		18				42, 43	55		
B-, B35	B*18:36/57~58/101; B*35:32:02/208				27		42, 43	55		
B-	B*18:48						43, 46, 48	55		
B-	B*18:49/79			40			43	55		
B-, B53	B*18:54; B*53:01:01~06/ 08:01~08:02/15/18/20/23/ 25~27/29~30/32~35/37/39	15					43	54		
B-, B35	B*18:56/113; B*35:43:01/ 67/79/86/102/117~118/265; B*46:40:01~40:02			24			42	55		
B-, B35	B*18:66/108; B*35:03:03						43	55		
B-	B*18:67	15			31		43	54		

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B Locus

Reaction Results (mark positive locations)

Serology Equivalent	B Locus Allele Group	1	2	3	4	5	6	7	8	9
B27, B-, B"Blank"	B*27:01/03~04:01/04:04~05:05/05:07/05:10/05:18/05:23/05:31~06/09~10/13/17/19/21/25/35/37/47/66N/68~69/96:02/109~115/117~118/128/131					39		54		
B27	B*27:02:01	17				39		54		
B27, B-, B"Blank"	B*27:02:02/30/53/57/62/65N/77/83/95/102/126/134	17						54		
B27, B-, B"Blank", B47, C-	B*27:04:02~04:03/05:06/05:08~05:09/05:11~05:17/05:19~05:22/05:24/05:26~05:30/15/27~28/31/39/45~46/48/50:01~51/54~56/58~61/64N/70~74/78~80/82/84~88/90:01~91/93~94N/96:01/97~101/103~105/107~108/120~121/123~124/129/132~133/135/137~138/140~142; B*44:64:01~64:02; B*47:01:01:01~01:02/04~10; B*57:13/19/30; C*16:85							54		
B27, B-	B*27:05:25/116					39				
B27, B-	B*27:07:01/11/32					39		49 54		
B27, B-	B*27:07:02~07:04/34/43; B*44:213							49 54		
B2708	B*27:08					39		55		
B-	B*27:106					37		54		
B-	B*27:119	17		22		33		54		
B27	B*27:12			22		33 39		55		
B-	B*27:125					39	47	54		
B-, B44, B"Blank", B21	B*27:127; B*44:02:01:01~02:02/02:04~02:32/02:35~02:39/03:25~03:26/05:01/05:03~05:04/11/19N/22~23N/27:01~28:02/33~35/42/48~49/52N~53/58N~59:02/63/66~68/70~74/78/80/84:02/86~87/89/91/93/97~98/101~102/104/112~113/116~119/121/126:01~126:02/133/136~137/139/142/148~149N/151~152/162/168~171N/173/176~177/179/185/187/191/195N~196/201/206/208/211/214/216~220		19					52 54		
B-	B*27:130; B*40:110		16					50 54		
B27	B*27:14					39		50 54		
B-	B*27:16			22		33 39		54		
B-	B*27:18					33 39		55		
B27, B-	B*27:20/24				30	39		54		
B-	B*27:23		15			33 39		54		
B-	B*27:26/40/42/44/89							55		
B27	B*27:29					33		54		
B-	B*27:33							49 55		
B-, B44	B*27:36; B*44:31						47	54		
B27	B*27:38				27	39		54		
B-, B57	B*27:41/136; B*57:01:10/25~26/43/67; B*58:36/44						43	54		
B-, B37	B*27:52; B*37:01:09/22						40	54		

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B Locus

Reaction Results (mark positive locations)

Serology Equivalent	B Locus Allele Group	1	2	3	4	5	6	7	8	9
B-, B57	B*27:63/139; B*44:82; B*57:01:02/03:01~03:02/ 17/31~32/39/46/66/70	27						54		
B-	B*27:67		25				46	54		
B-	B*27:75	17	31				44	53 54		
B-, B44	B*27:76; B*44:03:17/37:01~ 37:02/47/65/114/120/193/ 197/203; B*57:41	27						52 54		
B-	B*27:81							50 54		
B-	B*27:92	22			33			54		
B35, B-, B"Blank"	B*35:01:39/17:02/152/ 173N/248/293						41 42 43			
B35, B-, B"Blank"	B*35:02:01~02:02/02:04~ 02:07/04:01~04:03/06/ 08:01/08:03~08:04/08:06~ 09:03/11:03/61:01~61:02/ 64:01~64:02/83/88/95/100/ 105/121/129N/133/142/156/ 158/172/174/176/182~184/ 187/192/205~206/211/214/ 220/225/230/258/262/264/ 285/291						41 42		55	
B35	B*35:02:03						41 42			
B35, B-	B*35:05:01~05:03/72/89/97						42 43	49	55	
B35	B*35:08:02/08:05						41		55	
B35, B-	B*35:10/13/16/28/226					40	41 42 43		55	
B-	B*35:135	24	29				42		55	
B35, B-	B*35:14:01~14:02/62/163/ 213	24				36	41 42		55	
B-	B*35:154; B*40:129						41 48		55	
B-	B*35:162						41 42 46		55	
B-	B*35:164/261						41 42	52	55	
B-, B35	B*35:18/81/157		26				41 42		55	
B-	B*35:185	24				40			55	
B-	B*35:188/277						41 42 43		55	66
B35, B-	B*35:19/203/210/271/274						41 43		55	
B-	B*35:198				33	37	43	53	55	
B-	B*35:207	23	25				41 43 48		55	
B-	B*35:215		27				41 42	52	55	
B-	B*35:22		27				42	49	55	
B-	B*35:222; B*58:54						43			
B-	B*35:233		26 27				41 42		55	
B-	B*35:234/251		27				42		55	
B35	B*35:25				33	37	41 43		55	
B-	B*35:254				33	37	43		55	
B-	B*35:257/278						41 42 43 48		55	
B-	B*35:26		29		33		41 43	53	55	
B35, B-	B*35:27/56						40 41 43		55	
B-	B*35:273	16					42		55	
B-	B*35:276	16	32			38	42		55	
B-	B*35:294		29				42 43		55	
B-	B*35:31/114						42	49	55	
B-, B35	B*35:35/236/259		32				41 42 43		55	
B-	B*35:38/115/169/260	24		19			41 42		55	
B-	B*35:39/242				27		41 42 43		55	
B35	B*35:44		30		26		42		55	
B-	B*35:45			19			41 42		55	
B35	B*35:46	23			28		41 43 48		55	
B-	B*35:47						41 43 48		55	
B-	B*35:49					37	41 43	53	55	

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B Locus

Reaction Results (mark positive locations)

Serology Equivalent	B Locus Allele Group	1	2	3	4	5	6	7	8	9
B-, B35	B*35:50/84/197/231/267/269						41 42 43 46 55			
B-, B35	B*35:51/199				27		42 43	49 55		
B35	B*35:60	16				38	42 55			
B-	B*35:63/217						41 43 45 48 55			
B-	B*35:66			18			42	49 55		
B-	B*35:69						40 42 43 55			
B-	B*35:71			19			41 42 43 55			
B-, B35	B*35:80/270						40 41 42 55			
B-	B*35:82/85				29		41 42 43 55			
B-	B*35:96/109			21			41 42 43 55			
B37, B-, B"Blank"	B*37:01:01~01:05/01:07~01:08/01:10~03N/12~13/15~18/20~21/23/25~27/29~33N/36/38/41~47/49/51~55						40 44 54			
B37, B-	B*37:01:06/06:01~06:02						44 54			
B37	B*37:04:01~04:02			21			40 44 54			
B-	B*37:05						40 44 55			
B-	B*37:07			18			40 44 54			
B37	B*37:08	15					46 54			
B37	B*37:09					38	40 44 54	49		
B37	B*37:10			20	31		40 44 54			
B-	B*37:11/37						40 42 44 55			
B-	B*37:14						40 42 44 54			
B-	B*37:19/50			19			40 44 54			
B-	B*37:24						40 44			
B-	B*37:28					33	44 53 54			
B-	B*37:34		17		31		40 44 54			
B-	B*37:35/56			24			40 44 54			
B-	B*37:39/48						40 44 52 54			
B-	B*37:40				32		40 44 54			
B38, B-, B16, B"Blank"	B*38:01:01~02:07/08~09/11~15/18/20~24/27/31/34N~35/38~44/47~49/51/53/55Q~57			22	31 32 33		54			
B16	B*38:03				31 32 33		44 54			
B-	B*38:04			22	31 32 33		44 54			
B38	B*38:05				32 33		54			
B-	B*38:06~07	15			31 32		46 54			
B-	B*38:10			22	30 31 33		54			
B-	B*38:16~17/28/46			22	32 33		54			
B-	B*38:19			22	31 32 33	38	54	49		
B-	B*38:25		17	22	31 32 33		44 46 54			
B-	B*38:26				31 32		54	50		
B-	B*38:29			22	31 32 33		43 54			
B-	B*38:30/36~37/45/50			22	31 33		54			
B-	B*38:32			22	30 31 32 33		54			
B-	B*38:33				29 32 33	37	54			
B-	B*38:52			22	31 33		43 54			
B-	B*38:54			22	31 32		54			
B3901, B39"Low", B39, B-, B"Blank"	B*39:01:01:01~01:05/01:07~01:13/01:16~01:22/05:01~05:02/09:01~09:03/11/25N~28/31/38Q/40:01N~42/44~47/51/53~54/56~57/59~61/65~68/71/73/75/77~81/84~87N/92~95N/97N~98/102			22	32 33		55			
B3901, B-	B*39:01:06/52/69			22	32		55			
B3901	B*39:01:14			22	32 33		53 55			

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Micro SSP™ Japanese HLA Class I and II ABCDRDQ DNA Typing Tray, Lot #007

Name _____ Sample ID _____

B Locus

Reaction Results (mark positive locations)

Serology Equivalent	B Locus Allele Group	1	2	3	4	5	6	7	8	9
B3901, B-	B*39:01:15/100/104	22	32 33							
B3902, B39, B-	B*39:02:01~02:02/08/ 13:01/23/101		32 33				44	55		
B39, B-	B*39:03/24:01/37/76	22	32 33			38		49 55		
B39	B*39:04		29 32 33			37		55		
B39, B-	B*39:06:01~06:05/62/64/90	16 22	32 33			38		55		
B-, B39	B*39:07/15/55/91	22	32 33				43	55		
B39, B-	B*39:10:01~10:02/16~17/ 20/39:01~39:02/58/72/88~ 89/96/99		32 33					55		
B-	B*39:105		32 33				44			
B39	B*39:12		29 32 33					55		
B39	B*39:13:02		32 33				44	53 55		
B-	B*39:14	22	33			38		49 55		
B-	B*39:18/35	22	30 32 33					55		
B39	B*39:19:01	22	32				42 46	55		
B39	B*39:19:02	22	32				42	55		
B-	B*39:22	22	32 33				44	55		
B39	B*39:24:02	22	32 33			38		49		
B-	B*39:29	22	33			38		49 55		
B-	B*39:32	21 22	26 27 32 33					55		
B-	B*39:33	22	26 33					55		
B39	B*39:34	16 22	33			38		55		
B-	B*39:36	22	30 33					55		
B-	B*39:43	22	33				43	55		
B-	B*39:48	21 22	26 32 33					55		
B-	B*39:49		32 33				43 44	55		
B39	B*39:50	22	32 33					50 55		
B-	B*39:63		32 33			37		55		
B-	B*39:74	22	27 32 33					55		
B-	B*39:83	16	32 33			38		55		
B60, B-, B"Blank"	B*40:01:01~01:04/01:06/ 01:08~01:12/01:14~01:19/ 01:21~01:30/01:32~01:39/ 01:41~01:43/07/22N/25/30/ 33~34/36/38/42~43/52/54~ 55/60~62/65~67/69/72:01~ 73/77/79/81/84/87:01~88/ 100~102/106/108/112/116/ 118N/123~126/128/132/134/ 138~141/146~147/150~156/ 166/168/171~172/175/179/ 186~187/191~192/194~197/ 199/204/207/213/215~216N/ 221~222/227~228/233~241/ 245/247/249~250/252~253/ 257~264/272~273/277~280/ 282/286N/288/299~301						45 47 48	55		
B60, B-, B"Blank"	B*40:01:05/170/242/265N						45 47	55		
B60, B-, B41	B*40:01:07/01:20/130:01~ 130:02/178/285; B*41:01:01~01:04/03:01~ 03:02/06~07/09/12/14/16~ 17/20/25/28~30/32/34~35/ 37; B*45:08						45 48	55		
B60, B-	B*40:01:13/01:40/10:01~ 10:02/49/182/208/251						47 48	55		
B60, B-	B*40:01:31/193/212/217~ 218/223/281						45 47 48			

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B Locus

Reaction Results (mark positive locations)

Serology Equivalent	B Locus Allele Group	1	2	3	4	5	6	7	8	9
B61, B-, B"Blank"	B*40:02:01~02:21/02:23~03/08~09/18/24/27:01~27:02/29/35:01~35:02/40/50/56~57/78/82/85/89~91/94/97/104~105/107/111/115/119/122/133Q/142N~145/169/173/176/180~181/189/200/202~203/205~206/211/214/220/224/226/229/232/246/248/254~255/266~267/271/274/276/283~284/287/289~291N/293/296~297/302~305						46 48 49 55			
B61	B*40:02:22						46 48 49			
B61, B-, B40	B*40:04/64/68/120						41 46 48 55			
B4005, B21	B*40:05/26				27 30		46 48 55			
B61, B-, B"Blank"	B*40:06:01:01~06:08/06:10~06:12/44/70:01~70:02/103/131/162/165/167/177/190/230/244/256N/268/270/275/294/307	16					46 48 50 55			
B61, B-	B*40:06:09/86/159						46 48 50 55			
B-	B*40:109	16	17				46 50 54			
B61, B-	B*40:11:01~11:02/20/99/225/243						46 48 55			
B-	B*40:113				26		45 47 48 55			
B-	B*40:117		17				45 47 54			
B-	B*40:12					33 37	44 47 55			
B-	B*40:127/306	16					46 48 50			
B-	B*40:13/19/292		17				46 49 54			
B-	B*40:137			23	25		41 47 55			
B-, B60	B*40:14:01~14:03/32/114:01~114:02/121/136/231; B*41:08		18				45 48 55			
B-	B*40:149						44 46 47 48 55			
B-, B61	B*40:15~16/23/158		18		30		45 48 55			
B-	B*40:157/201						46 49 54			
B-	B*40:163				26		45 48 55			
B-	B*40:174				26 27 30		46 48 55			
B-	B*40:183/198				30		45 47 48 55			
B-	B*40:184					32	46 48 55			
B-	B*40:185					40	42 47 55			
B-	B*40:209					40	42 46 49 55			
B-	B*40:21			23	25		47 55			
B-	B*40:269	16					46 48 55			
B-	B*40:28				26 30		41 46 48 55			
B-	B*40:298	16					45 47 48 50 55			
B-	B*40:308					40	42 47 48 55			
B-	B*40:309				30		46 48 55			
B60, B-	B*40:31/80						45 47 48 49 55			
B-	B*40:37						46 49 55			
B41	B*40:39					38	46 48 49 55			
B-	B*40:45		18				45 48 49 55			
B-	B*40:46					33 37	47 55			
B-, B40	B*40:47/188						45 47 54			
B60	B*40:48					35	45 47 48 55			
B-	B*40:51				26 30		45 48 55			
B61	B*40:53	16					45 48 50 55			
B-	B*40:58/164/219						48 49 55			
B-	B*40:59/160:01~160:02						41 45 47 48 55			

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Name _____ Sample ID _____

B Locus

Reaction Results (mark positive locations)

Serology Equivalent	B Locus Allele Group	1	2	3	4	5	6	7	8	9
B-	B*40:63				27		45 47 48	55		
B-	B*40:71				27	35	46 48	49 55		
B-	B*40:74/210						46 47 48	55		
B-	B*40:75	16		22			46 48	50 55		
B-	B*40:76/135						45 47			
B-	B*40:83/295	16					46	50 55		
B40	B*40:92				27		45 48	55		
B-	B*40:93	16				33		50 55		
B-	B*40:95/148/161	16			30		46 48	50 55		
B-	B*40:96	16					46	50 54		
B-	B*40:98		18				46 48	55		
B41, B-	B*41:02:01/02:03~02:06/ 10~11/13/15/23~24/27/31/ 36/38~39					38	45 48	49 55		
B41	B*41:02:02					38	45 48	49		
B-	B*41:04/18		24			38	45 48	49 55		
B-	B*41:05/26						45 48			
B-	B*41:19						45 48	49 55		
B-	B*41:22						44 45 48	55		
B-, B47	B*41:33; B*47:02						48	55		
B42, B-	B*42:01:01~02:01:02/06/ 08/10/14~15/17~18/20					38	49 50 53	55		
B-	B*42:04	16				38	50 53	55		
B-	B*42:05:01~05:02		18			38	49 50 53	55		
B-	B*42:07					33 38	49 53	55		
B-	B*42:09/16		24			38	49 50 53	55		
B-	B*42:11					33 38	44 49 53	55		
B-	B*42:12						49 50 53	55		
B-	B*42:13		19				50 53	55		
B-	B*42:19				30	38	50 53	55		
B-	B*42:21					38	49 53	55		
B44, B-, B47, B"Blank"	B*44:02:03/03:28~04/ 05:02/14/16/21/56N/62/76/ 88/124/132/163/190		19					54		
B44, B-, B57	B*44:02:33~02:34/20/ 41:01~41:02/99~100/138Q; B*57:04~05							52 54		
B44, B-, B"Blank"	B*44:03:01~03:15/03:18~ 03:20/03:22~03:24/03:27/ 07/13/26/29~30/32/36/38~ 39/61N/69/81/92/94/96/ 105/108N~110/115/122/125/ 128/141/143~144/147/153~ 155/157/159/161/164~165/ 167/175/178/180/182~183/ 186/189/192/198N~199/202/ 204/207/209/222		19		27			52 54		
B44, B-	B*44:03:16/111		19		27			52		
B44, B-	B*44:03:21/45/77/79:01~ 79:02/160Q/174/215/223; B*57:07		19		27			54		
B44	B*44:06/12	15	19					52 54		
B44	B*44:08		19		25			52 54		
B45	B*44:09		19				41 48	52 55		
B44	B*44:10		19			35		54		
B-	B*44:103		19		27		46	52 54		
B-	B*44:106/158							49 52 54		
B-	B*44:127/145/172/200		19					52		
B-	B*44:130		19		27 31	33 39	44	52 54		
B-	B*44:131		19				41 46 48	52 55		
B-	B*44:134		19					52 54		

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Name _____ Sample ID _____

B Locus

Reaction Results (mark positive locations)

Serology Equivalent	B Locus Allele Group	1	2	3	4	5	6	7	8	9
B-	B*44:135/184				27			49, 54		
B-	B*44:140			19		35		52, 54		
B-	B*44:146			19			36	54		
B12	B*44:15					35	45	52, 54		
B-	B*44:150	18						54		
B-	B*44:156			19	27	33	37, 44	52, 54		
B-	B*44:166						38	49, 54		
B-, B44	B*44:17/51/123; B*57:24			19, 24				54		
B-	B*44:18; B*49:11	17				35	45	52, 54		
B-	B*44:181			19	27		36	52, 54		
B-	B*44:188			19	27		45	52, 54		
B-	B*44:194/205:01~205:02			19, 20	27			52, 54		
B-	B*44:212			19			46	52, 54		
B-	B*44:221			19			44	52, 54		
B-	B*44:24			19			36	52, 54		
B-	B*44:25/95	17		19				52, 54		
B-, B44	B*44:40/210			19	27	33, 37		52, 54		
B-, B44	B*44:43:01~43:02/107			19	27		43	54		
B-	B*44:44			19		33, 37		52, 54		
B-	B*44:46/129			19	27		41, 48	52, 55		
B-	B*44:50:01~50:02	17		19	27			52, 54		
B44	B*44:54				27			49, 52, 54		
B44	B*44:55			19			45	52, 54		
B-	B*44:57			19	25, 27			52, 54		
B-	B*44:60			19, 20	25, 27			52, 54		
B-	B*44:75			19			41	52, 55		
B-	B*44:83			19, 20			40	52, 54		
B-	B*44:84:01			19, 20				52, 54		
B-	B*44:85			19	27			52, 54	60	
B-	B*44:90			19			48	52, 55		
B45, B-	B*45:01:01/03~07/11~13					35	45, 48	52, 55		
B45	B*45:01:02					35	48	52, 55		
B-	B*45:02						45, 48	52, 55		
B-	B*45:10					35	45, 48	50, 55		
B-, B50	B*45:14~15; B*50:01:03/12/32					35	45, 48	55		
B-	B*45:16					35	45, 48	52		
B46, B"Blank", B-	B*46:01:01~01:11/01:13~02/05/07N/09~10/12/14~15N/17/20/22~24/26~28/30/32/34~39/42/44~46/49~58/60/63			24				51, 55		
B46	B*46:03							51, 55		66
B-	B*46:06						47	51, 55		
B-	B*46:08/13:01~13:03/43				27		43	51, 55		
B-	B*46:11					35		51, 55		
B-	B*46:18						38	51, 55		
B-	B*46:19				27		43	51, 55		
B-	B*46:21:01~21:02/25/33						43	51, 55		
B-	B*46:29			24				51, 55		66
B-	B*46:48			24				51		
B-	B*46:59/62/64							51, 55		
B-	B*46:61				26			51, 55		
B47	B*47:03						48	54		
B48, B-	B*48:01:01~01:06/07/09/11/14/19/27/29~32/34~35					33	44, 47	49, 53, 55		
B48, B-	B*48:02:01/25					33	41, 43, 44	53, 55		
B48	B*48:02:02					33	41, 43	53, 55		
B48	B*48:02:03					33	41, 43, 44, 46	53, 55		
B48, B-	B*48:03:01~03:02/21/23/26					33	44, 47	53, 55		

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Name _____ Sample ID _____

B Locus

Reaction Results (mark positive locations)

Serology Equivalent	B Locus Allele Group	1	2	3	4	5	6	7	8	9
B48, B-	B*48:04:01~04:02/13/24					33	44	49 53 55		
B48	B*48:05			18	30	33	44	53 55		
B-	B*48:06/16					33	47	49 53 55		
B-	B*48:08			18		33	44	53 55		
B48, B-	B*48:10/12			18		33	44	49 53 55		
B-	B*48:15				30	33	44 47	53 55		
B48/40V	B*48:17					33	41 44 47	53 55		
B-	B*48:18			17	31	33	44 47	49 53 54		
B-	B*48:20/36					33	44 47	49 53		
B-	B*48:22					33	37 44 47	49 53 55		
B-	B*48:28/33					33	44 47	49 55		
B-	B*48:37					33	38 44 47	49 53 55		
B49, B-, B"Blank"	B*49:01:01/01:03~01:08/ 06/12~17/19N~20/22~23/27~ 30/32~35/37~39			17	30	35	45	54		
B49	B*49:01:02			17		35	45	54		
B49	B*49:02				30	35	45	54		
B-	B*49:03			17	30	35 40		54		
B-	B*49:04:01~04:02			17	30		43 45	54		
B49, B-	B*49:05/08/18/36			17	30		45	54		
B47	B*49:07			17	30	35	45	50 54		
B-	B*49:09			17 21	30	35	45	54		
B-	B*49:10/24			17	30	35		54		
B-	B*49:21			17	30	35	45			
B-	B*49:25			17	30	35	44	54		
B-	B*49:26				29 30	33 35 37		54		
B-	B*49:31			17	30	35	46	54		
B50, B45, B-	B*50:01:01~01:02/01:04~ 04/08/10~11/15~16/18~19/ 35~37/40~42				30	35	45 48	55		
B-	B*50:05/07				30	35	45	55		
B-	B*50:06/13/34				30	35	48	55		
B-	B*50:09/14/33/39				30		45 48	55		
B-	B*50:17					35	41 45 48	55		
B-	B*50:20				27 30		45 48	55		
B-	B*50:31				30	35	45 48	50 55		
B-	B*50:38				30	35	45 48			
B-	B*50:43				30	35	46 48	55		
B51, B5103, B-, B"Blank"	B*51:01:01:01~01:10/ 01:12~01:13/01:15~01:16/ 01:18/01:20~01:30/01:32~ 01:46/01:49/01:51~01:53/ 03/07:01~07:02/11N~12/14/ 18/24:01~28/30/32~33/38/ 41N/43/48~53/58/60/66/68~ 71/74~77/79~80/83~84/86/ 88~89/95~96/98N~100/102/ 105/107/109/111~114/117/ 119~121/123~134/136~138/ 140/142/145/147/149N~151/ 154~155/161~170/173Q~174/ 176~179/182~185/187~190				26 27 30			54		
B51, B"Blank", B-	B*51:01:11/01:17/118N/160				26 27 30			54		
B51, B"Blank", B-	B*51:01:14/67/110N/159/ 171				26 27 30					
B51, B-	B*51:01:19/01:47/09:01~ 09:02/19/72~73/87/91/94/ 115/122/181				26 27			54		
B51, B5102, B-	B*51:01:31/01:50/02:03/ 17/40/108/146				27			54		

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B Locus

Reaction Results (mark positive locations)

Serology Equivalent	B Locus Allele Group	1	2	3	4	5	6	7	8	9
B51, B-	B*51:01:48/04/06:01~06:02/35/46/63~64/152/186	15			26 27 30			54		
B5102, B-	B*51:02:01~02:02/02:04~02:05/23/175/180	15 16			27 30			54		
B51, B-	B*51:05/08:01~08:02/20/141	15 16			26			54		
B-	B*51:10/93	15 16						50 54		
B-	B*51:104	15 16			26 27 28 30			54		
B-	B*51:116	15 16			26 27 30 31		46	54		
B-	B*51:13:01~13:02	15		21	26 27 30			54		
B-	B*51:139	15			26 27			54		
B-	B*51:144	15 16			30			54		
B-	B*51:148	15			27			49 54		
B-	B*51:15	15				35		54		
B-	B*51:153	15 16			26	38		54		
B-	B*51:157	15 16				38		54		
B5, B-	B*51:16/82	15 16			26 30			50 54		
B-	B*51:172	15		21	27			54		
B-	B*51:21/101	15 16			26 30	38		54		
B-	B*51:22	16			26 27 29 30			54		
B-, B51	B*51:29/55/61:01~61:02/65/156/158:01~158:02	15 16			26 30			54		
B51	B*51:31	15 16			26			50 54		
B-	B*51:34	15 16			30			50 54		
B-	B*51:36/143	15 16			30	38		54		
B-	B*51:37/45/135	15			27		43	54		
B-	B*51:39	15 16			26 27 30	36		54		
B-	B*51:42	15	19		27			52 54		
B"Blank"	B*51:44N	16			26			54		
B-	B*51:54	15 16		20	26			54		
B-	B*51:56:01~56:03	15			26 30			54		
B-	B*51:57/103	15 16			26 27 30		46	54		
B-	B*51:59	15			27 30			54		
B-	B*51:62/106	15		21	26 27 30	35		54		
B-	B*51:78:01~78:02	15 16		20	26 27 30			54		
B-	B*51:81	15						49 54		
B-	B*51:85	15			27			54		
B-	B*51:90	15 16			27		43	54		
B-	B*51:92:01~92:02	15		21	27		43	54		
B-	B*51:97	15			26			54		
B52, B-, B"Blank"	B*52:01:01:01~01:10/01:12~01:18/01:20/01:22~01:23/01:27~01:28/05~07/09/13/15/17/22~23/28~30/33/36/38/40~42/45~50	16 17			26 27 30			40 54		
B52, B-	B*52:01:11/10:01~10:03/44	16 17			26 27			40 54		
B52, B-	B*52:01:19/04/34~35	16 17			26 27 30			40		
B52, B-	B*52:01:21/01:24/21/24/31:01~31:02/43	16 17			26 30			40 54		
B-	B*52:02:01~02:02	16 17			25 26 27 30			54		
B-	B*52:03	16 17			27			40 54		
B52	B*52:08	16 17			26 30			50 40 54		
B-	B*52:11	16 17			27 30			40 54		
B52	B*52:12	16 17			27			40 43 54		
B-	B*52:14	17		21	26 27 30			40 54		
B-	B*52:16	16 17			26 27 30	33 37	44	53 54		
B-	B*52:18/32	16 17			26 27 30			54		
B-	B*52:19	16 17			26			40 54		
B-	B*52:20	16	20		26 27 30			40 54		
B-	B*52:25	17		21	26 27 30	35		40 54		
B-	B*52:26	17			27			40 54		

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B Locus

Reaction Results (mark positive locations)

Serology Equivalent	B Locus Allele Group	1	2	3	4	5	6	7	8	9
		H G F E D C B A	H G F E D C B A	H G F E D C B A	H G F E D C B A	H G F E D C B A	H G F E D C B A	H G F E D C B A	H G F E D C B A	H G F E D C B A
		1 2 3 4 5 6 7 8	9 10 11 12 13 14 15 16	17 18 19 20 21 22 23 24	25 26 27 28 29 30 31 32	33 34 35 36 37 38 39 40	41 42 43 44 45 46 47 48	49 50 51 52 53 54 55 56	57 58 59 60 61 62 63 64	65 66 67 68 69 70 71 72
B-	B*52:27		16	17	26 27 30	40	44	54		
B-	B*52:37		16	17	26 30	38 40		54		
B-	B*52:39			17	26 27 30	40		54		
B53	B*53:07		15		27			52 54		
B-	B*53:09/12~13/31		15	20			43	54		
B-	B*53:10		15				43			
B53, B-	B*53:11/36		15	20				54		
B-	B*53:14		15				43	49 54		
B-	B*53:16/19/24		15					54		
B53, B-	B*53:17:01~17:02/28			17		40	43	54		
B-	B*53:21		15				43 46	54		
B-	B*53:22		15	19 24				54		
B-	B*53:38			20		40	43	54		
B54, B-, B"Blank"	B*54:01:01~01:06/04/07~08N/10~11/13/15~19/22~25/27~32/34		16			36 37 38				
B54	B*54:01:07		16			36 38				
B54, B"Blank"	B*54:02/05N		16			38				
B-	B*54:03					35 36 37				
B-	B*54:06			24		36 37				
B-	B*54:09					36 37	43			
B-	B*54:12		16			36 37 38		54		
B-	B*54:14		16			36 37 38	43			
B-	B*54:20		16		30	36 37 38				
B-	B*54:21		16			36 37 38		50		
B-	B*54:26					35 36 37		50		
B-	B*54:33				26 30	35 36 37				
B55, B22, B-, B"Blank"	B*55:01:01~01:12/01:14/03/05/15/17/21/25/28~29/31/33/36/38/40/44~45/52~56/59~60/64/66/74~75		16		30	37 38		55		
B55, B-	B*55:01:13/73		16		30	37 38				
B55, B54, B22, B-	B*55:02:01:01~02:09/07/12~13/16/19~20/26/32/34/37/39/41~43/46~48/50/57~58/61~63/65/67/69~71; B*56:23		16			37 38		55		
B56	B*55:08				27	37		55		
B22, B-	B*55:09/24				30	35 37		50 55		
B55	B*55:10		16			38		50 55		
B-	B*55:11				30	37		55		
B-	B*55:14; B*56:32					37	43	55		66
B55, B-	B*55:22; B*56:16					35 37		50 55		
B-	B*55:23/27		16			37 38	43	55		
B-	B*55:30		16			37 38		55	60	
B-	B*55:35		16	23	28	38		55		
B-	B*55:51				27	37		49 55		
B-	B*55:68		16			37 38	43	55		66
B56, B-, B"Blank"	B*56:01:01:01~01:04/01:06~02/08/13~14/17/20:01~20:02/24/26/28N~30/36/38N/40~41/47~49					35 37		55		
B56, B55, B"Blank", B-	B*56:01:05/10/12/19N/22					37		55		
B22	B*56:03			24		37		53 55		
B56, B-	B*56:04/27				27	35 37		55		
B56	B*56:05:01~05:02		16		26 27 30	37		55		
B78	B*56:06; B*78:01:01~02:02		16		26 27 30		42	55		
B56, B-	B*56:07/46					35 37		54		
B-, B56	B*56:09/11/18/31					37	43	55		
B56	B*56:15		16			37		55		

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B Locus

Reaction Results (mark positive locations)

Serology Equivalent	B Locus Allele Group	1	2	3	4	5	6	7	8	9
B56	B*56:21				26 27 30	37		54		
B-	B*56:25/37				30	35 37		55		
B-	B*56:33				29	33 35 37		55		
B-	B*56:34			21	26	35 37		55		
B-	B*56:35					35		55		
B-	B*56:39			23	28	35		55		
B-	B*56:42/44					33 35 37		55		
B-	B*56:43				26	35 37		55		
B-	B*56:45					35	42	55		
B57, B-, B"Blank"	B*57:01:01/01:03~01:07/ 01:09/01:11~01:22/06/11/ 14:01~16/18/20~23/27/29/ 33/35~38/40/44~45/47~50/ 52~56/58~62/64~65/68~69/ 71~79N				27		43	54		
B57, B-	B*57:01:08/08/34				27		43			
B57, B"Blank", B-	B*57:02:01~02:02/28N/42				26			54		
B-	B*57:09			19	30			54		
B-	B*57:10				27		43 46	54		
B-	B*57:12			23	26			55		
B-	B*57:51				27		43 45	54		
B-	B*57:57				27 30			54		
B-	B*57:63				26 30			54		
B58, B-, B"Blank"	B*58:01:01:01~01:14/ 01:16~01:17/01:19~07/09~ 17N/19/21/23~26/29~35/37~ 41/43/45:01~45:02/47~53/ 55~60/62~63/66~72N					34	43	54		
B58, B-	B*58:01:15/01:18/22/ 28:01~28:02/46/61/65					34		54		
B17	B*58:08:01~08:02				26 27 30	34		54		
B-	B*58:18					34	43	54		
B58	B*58:20				32	34		54		
B-	B*58:27					34		54		
B-	B*58:42					34	43			
B-	B*58:64					34	42 43	55		
B59, B-	B*59:01:01:01~03/05~07					33		54		
B-	B*59:04					33 35 37		54		
B-	B*59:08				29	33 37 38		54		
B-	B*59:09					33 35 37		54		
B67, B-	B*67:01:01~01:03/03~05				32			55		
B-	B*67:02			22	32					67
B73, B-	B*73:01~02			21				53 55		
B-	B*78:03				26 27 29 30		42	55		
B-	B*78:04				27		42	55		
B-	B*78:05				26 27 30	40	42	55		
B-	B*78:06				26 27 30	40		55		
B-	B*78:07				26 30	38	42	55		
B-	B*78:08				26		42	50 55		
B81	B*81:01					39	47	49 50 53 55		
B-	B*81:05						47	49 53 55		
B-	B*81:06						47	49 50 53		
B82, B-	B*82:01~03					35		50 55		
B-	B*83:01			19		37 39		50 52 53 55		

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DR Locus

Serology Equivalent	DR Locus Allele Group	9								10								11								12							
		H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A
Reaction Results (mark positive locations)																																	
		65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
DR1, DR-, DR"Blank"	DRB1*01:01:01~01:14/ 01:16~02:11/04~05/07/ 11:01~11:02/13~14/17~21/ 24:01~28/30~32/34~38/40N~ 41/43~50/52N~54/56~60/ 62N~67/69~71						70																										
DR-	DRB1*01:08						70								78																		
DR17, DR3, DR-, DR"Blank"	DRB1*03:01:01:01~01:05/ 01:07~01:08/01:10~01:11/ 01:13~01:20/01:22~01:24/ 04:01/05:01~06/09~11:01/ 13:01~16/18~20/22~23/25~ 26/28/30~34/36~37/39/43~ 45/47~48/50~52/55~58/60~ 63/66/68N~73/77~78/80~84/ 89/91/93~95/99~100:02/ 104/106~108/112/114/116~ 117/121									73																89							
DR17, DR18, DR3, DR-, DR"Blank", DR13, DR14	DRB1*03:01:12/01:21/ 01:25~03/04:02/07/12/21/ 24/27/29/35/38/53~54/67N/ 74/79/85/88/90/96~98/101~ 103/109~110/113/115/120; DRB1*13:01:07/02:10/20/ 29/43/54/56/60/63/74~75/ 78/88/110~111/114/121/ 133~134/140/180/184; DRB1*14:01:03/32:01~ 32:03/34/38:01~38:02/58/ 65/69/74/81/87/91~92N/94/ 97~98/100/104/111/121/ 123/127:01~127:02/159~ 162; DRB3*01:14																									89							
DR-, DR11	DRB1*03:08/65; DRB1*11:13:01~13:02/59											75				79																	
DR-, DR3	DRB1*03:17/40~41:02/105; DRB1*13:24~25/44/86/149; DRB1*14:42/116														78											89							
DR-, DR52	DRB1*03:42/87; DRB3*01:07/ 15									73														87									
DR-	DRB1*03:49										74				78											89							
DR-	DRB1*03:75/118									73					78											89							
DR-	DRB1*03:76; DRB1*14:82/95/ 132									73								81								89							
DR-	DRB1*03:86/111									73																							
DR-	DRB1*03:92									73										83													
DR4, DR-, DR"Blank"	DRB1*04:01:01~01:02/ 01:04~01:09/01:11~01:13/ 01:15/02:01~03:01/03:03/ 03:05~04:01/04:03~04:05/ 04:08~04:09/07:01~08:01/ 08:04/13~14/18/22~23/25/ 27/31~39/42~44/47/50~ 56:01/58~60/64/66/70~ 72:02/74~76/79/88/92~ 98:02/100~101/105:02/109/ 111~112/115/117~124/127~ 130/132~135/139~143/148~ 151/153/155~160/163/165~ 168/171/174~175/177/179/ 181~183/185/188~190/192~ 194										74				78																		

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DR Locus

		9								10								11								12							
		H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A
Reaction Results (mark positive locations)																																	
Serology Equivalent	**DR Locus Allele Group**	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
DR4, DR-, DR"Blank"	DRB1*04:01:03/01:10/ 01:14/01:16/03:02/03:04/ 04:02/04:06~04:07/05:01~ 05:16/05:18~06:05/08:02~ 08:03/09~12/15~17:02/19~ 21/24/26/28~30/40~41/45~ 46/48~49/56:02~57/61~62/ 65/67~69/73/77~78/80~87/ 89~91/99/102~105:01/106~ 108/113~114/116/125~126/ 131:01~131:02/136~138/ 144~147/152/154/162/164/ 169~170/173/176/178N/180/ 184/186N~187/191										74																					
DR-	DRB1*04:63/110/161; DRB1*08:57														78																		
DR7, DR-, DR"Blank"	DRB1*07:01:01:01~10N/12~ 24/27~60																		82														
DR8, DR-, DR"Blank"	DRB1*08:01:01~01:05/ 03:02~03:05/04:06/05~08/ 10~12/14~19/22~23/26~27/ 29/30:02/33~34/36:01~37/ 39~40/42~43/46~56/58/60N~ 62/64~66/68~74/76; DRB1*13:103/160																			83													
DR8, DR-	DRB1*08:02:01~02:04/ 04:01~04:05/04:07/13/24/ 28/30:01/30:03/44~45/59/ 67														78					83													
DR8, DR-	DRB1*08:09/21/35; DRB1*14:15/52/126:01																	81		83													
DR-, DR13	DRB1*08:20; DRB1*13:07:01/ 11:01/14:01/14:03/22~ 23:02/37/47/70/82/150													77	78											89							
DR11, DR-	DRB1*08:31/41; DRB1*13:195; DRB1*14:57															79																	
DR-	DRB1*08:32; DRB1*12:09/46/ 48												76							83													
DR-	DRB1*08:38										74									83													
DR-	DRB1*08:63/75; DRB1*11:67; DRB1*13:175															79				83													
DR9, DR-	DRB1*09:01:02~06/08~09/ 11~14/16/18~22/24~26																				84												
DR-	DRB1*09:07																				84		86										
DR10, DR-	DRB1*10:01:01~15																					85											
DR11, DR-, DR"Blank"	DRB1*11:01:01~01:17/ 01:20~02:04/04:01~04:12/ 06:01~06:03/09/14:01~16/ 18~21/23:01~25/27:01~ 29:01/32/37:01~37:02/39/ 43~51/54:01~54:02/56/ 58:01~58:02/60~62:02/66/ 69~75/77~78/81~82/84:01~ 84:03/86/88/90~92/94~95/ 97~101/104/106/108~113/ 115/117~119/121/123~124/ 126~129/132~134/137/140~ 141/144~147:02/150/152/ 154~158/160/162~167/169N/ 171~172/174/178/180~181/ 183~184											75		77																			
DR11, DR-	DRB1*11:01:18~01:19/ 03:01~03:02/05/07~08:03/ 11:01~11:03/26/30/34/36/ 40~42/53/55/57/63:01~64/ 68/76/79/85/89/93/103:01~ 103:02/105/107/122/125/ 131/136/138~139/143/151/ 153/159/161/168/173/176											75																					
DR11, DR-	DRB1*11:10:01~10:02/ 12:01~12:02/80/83/87/114/ 135/142/149/170/179/182											75		77		79																	
DR-	DRB1*11:102:01~102:02/175										74	75		77																			
DR-	DRB1*11:17											75				79		81															
DR-	DRB1*11:31/33/35/38/ 65:01~65:02/96/116/120/ 148; DRB1*13:122/165/ 171:01/197													77																			
DR11, DR14, DR-	DRB1*11:52; DRB1*14:11/148															79		81															
DR12, DR-, DR"Blank"	DRB1*12:01:01~03:03/05~ 08/10~13/15~37/39/41~45/ 47/50~55												76																				
DR-	DRB1*12:04/49												76			79																	

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DR Locus

		9								10								11								12							
		H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A	H	G	F	E	D	C	B	A
Reaction Results (mark positive locations)																																	
Serology Equivalent	**DR Locus Allele Group**	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
DR13, DR-, DR"Blank", DR14	DRB1*13:01:01~01:06/ 01:08~02:09/02:11~06/ 07:02/09~10/11:02~13/ 14:02/15~16/21:01~21:02/ 26:01~26:02/28/30~36/38~ 40/42/45~46/48~53/55/58~ 59/61:01~62/65~66:02/68~ 69/73/77/79~81/84~85/87/ 89~102/104~106/108~109/ 112~113N/115/117~118/120/ 123~128/130~132/136~139/ 141~143/145/147~148/151~ 155/157/159/161~164/166~ 170/171:02~174/177/179/ 181/185N~192/194/198~204; DRB1*14:22/25/37/53/105/ 128												77												89							
DR13, DR-, DR6	DRB1*13:08/19/57/64/72/ 83/107/135/182; DRB1*14:16													77		79										89							
DR-, DR14, DR"Blank", DR6	DRB1*13:119/178/193/196; DRB1*14:01:01~01:02/ 01:04~02:02/05:01~09/13~ 14/17~21/23:01/23:03~ 23:04/26/29~30/33/35~36/ 39/41/43~45/47~49/51/ 54:01~56/59~60/62/64/70/ 75/80/83~84/86/88/90/96/ 99/103/106/108~110/112~ 114/117~119/122/124~125/ 129/131/133~134/136~137N/ 139~140/142/144/146~147/ 149~151/153~155/157~158/ 163																	81								89							
DR-	DRB1*13:129/176									73				77												89							
DR-	DRB1*13:144									73				77				81								89							
DR-, DR13	DRB1*13:17/116														78	79				83													
DR-, DR13	DRB1*13:18/146/156/158													77				81								89							
DR13, DR-	DRB1*13:27/41									73				77		79										89							
DR-	DRB1*13:71									73						79										89							
DR-	DRB1*13:76													77		79		81								89							
DR1403, DR-, DR14	DRB1*14:03:01~03:02/ 12:01~12:02/40/85/89/115/ 135																80	81								89							
DR1404, DR14, DR-, DR"Blank"	DRB1*14:04:01~04:02/10/ 23:02/28/46/61/68:01~ 68:02/71~73/101/120/ 126:02/130/138/143/145/ 152N																	81															
DR-	DRB1*14:102														78		80									89							
DR-, DR52, DR"Blank"	DRB1*14:141; DRB3*01:01:02:01~06/08~ 13/16; DRB3*02:01~17/19~ 25/28~29N; DRB3*03:01:01~ 03																							87									
DR-	DRB1*14:156																80									89							
DR-	DRB1*14:24													77			80									89							
DR14, DR-	DRB1*14:27/63/67/78													77			80	81								89							
DR-	DRB1*14:77												76				80	81								89							
DR15, DR2, DR-, DR"Blank"	DRB1*15:01:01:01~06:03/ 08~10/12~16/19~20/22~24/ 26/29~33/35~53/55~65/67~ 68/71~83/85~87/89~95/97~ 99/101~102/104~112/114/ 116/118~119/123~124							71																									
DR15, DR-, DR"Blank"	DRB1*15:07:01~07:03/11/ 88/96/115N							71	72																								
DR-, DR16, DR2, DR"Blank"	DRB1*15:34; DRB1*16:01:01~ 08/11/13N~32/34~35								72																								
DR-	DRB3*02:18											75												87									
DR53, DR-, DR53"Blank"	DRB4*01:01:01:01~07/09																								88								
DR51, DR-, DR51"Blank"	DRB5*01:01:01~15; DRB5*02:02~06																						86										

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DQ Locus

		12							
		H	G	F	E	D	C	B	A
Reaction Results (mark positive locations)									
Serology Equivalent	**DQ Locus Allele Group**	89	90	91	92	93	94	95	96
DQ2, DQ-, DQ"Blank"	DQB1*02:01:01~24/26~61				92				
DQ7, DQ-, DQ8, DQ"Blank"	DQB1*03:01:01:01~01:07/ 01:09~01:30/04:01~04:02/ 09~10:02/13~14:02/16/19/ 21~22/24/27~29/35~36/42/ 44/46~60/69/71/73/75~77/ 80/82~84N/92~94/101~103/ 108/114~116/118N~122/127~ 131/133~135/138~140/142~ 144/147/150/152/154/157~ 160/162~167/169~173/180/ 182~183/186~188/191					93			
DQ8, DQ-, DQ"Blank"	DQB1*03:02:01~02:09/ 02:11~02:13/02:15/02:17~ 02:19/05:01~05:04/07~08/ 11/32/37/45/61~64/66N~68/ 70/81/85/106~107/125/146/ 153/161/174~175/178~179/ 181/184~185/189~190						94		
DQ9, DQ3, DQ-, DQ"Blank"	DQB1*03:03:02:01~03:13/ 06/12/15/20/25~26/30~31/ 33~34/38~41/43/65/74/79/ 86~91Q/95N~99Q/104~105/ 111~113/117/123~124/136~ 137/141/155~156/168/176~ 177; DQB1*04:03:02							95	
DQ-	DQB1*03:132						94		96
DQ4, DQ-, DQ"Blank"	DQB1*04:01:01~02:01/ 02:03~02:07/02:09/04~29								96
DQ-	DQB1*04:03:01							95	96
DQ5, DQ-, DQ"Blank"	DQB1*05:01:01:01~01:10/ 01:12~01:15/01:17~03:09/ 03:11~20/22~25/27~33/35~ 43/45~59/61~71/74~81/83~ 96		90						
DQ6, DQ-, DQ"Blank", DQ1	DQB1*06:01:01~02:03/ 02:05~02:08/02:10~03:02/ 03:04~03:16/03:19~04:05/ 04:07~08:02/09:01~11:02/ 12~15:01/16~18:01/19:01~ 19:02/21~22:03/24~27:01/ 28/30~50/51:02~56/58~66/ 68~71/74~89/91~95/97~114/ 116~122/124~125/127~138/ 140~150/152~155/157~161/ 163~166/168/170/172/176~ 182			91					
DQ-	DQB1*06:29/123/139			91			94		
DQ-	DQB1*06:51:01/96			91				95	

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