

# CELL EXCHANGE #425 DECEMBER 10, 2021

Cells 1697 - 1700

The results for Cell Exchange #425 are summarized in Table 7 - 10. Molecular typing results for individual laboratories are listed in Tables 11 - 18 for each sample.

We would like to thank the labs performing NGS for sharing their findings. Haplotype frequencies used in this report are from the NMDP Bioinformatics website, <https://bioinformatics.bethematchclinical.org/>.

**Cell 1697.** The reported HLA type for this cell from a Hispanic donor was A\*02:06-A\*24:02-B\*35:14-C\*04:01-DRB1\*16:02-DRB5\*02:02-DQA1\*05:05-DQB1\*03:01-DPA1\*01:03-DPB1\*04:02.

Likely associations present in this cell were A\*02:06-B\*35:14-DRB1\*16:02-DQB1\*03:01 and A\*24:02-B\*35:14-DRB1\*16:02-DQB1\*03:01. Each were observed exclusively in Hispanic populations, with identical frequencies of HF = 0.00047. The A\*24:02-B\*35:15-C\*04:01 association in this cell was observed in 2 other Exchange cells, cell 1305 and cell 1663, both from Hispanic donors.

Good agreement (> 90%) was achieved for all allele assignments.

**Cell 1698.** The reported HLA type for this cell from a Hispanic donor was A\*02:01-A\*68:01-B\*35:12-B\*51:08-C\*04:01-C\*16:02-DRB1\*04:04-DRB1\*12:01-DRB3\*02:02-DRB4\*01:03-DQA1\*03:01-DQA1\*05:05-DQB1\*03:01-DQB1\*03:02-DPA1\*01:03-DPB1\*04:01-DPB1\*04:02.

Likely associations present in this cell were B\*35:12-C\*04:01 and B\*51:08-C\*16:02, with respective HF = 0.01756 and 0.00151, in Hispanics. The B\*35:12-C\*04:01 association in this cell was examined in 3 other Exchange cells, cells 1068, 1312, and 1679, each from Hispanic donors.

Good agreement (> 90%) was achieved for all allele assignments.

**Cell 1699.** The reported HLA type for this cell from a Hispanic donor was A\*24:02-A\*33:05-B\*14:02-B\*45:01-C\*08:02-C\*16:01-DRB1\*04:03-DRB1\*10:01-DRB4\*01:03-DQA1\*01:05-DQA1\*03:01-DQB1\*03:02-DQB1\*05:01-DPA1\*01:03-DPA1\*02:01-DPB1\*02:01-DPB1\*03:01.

One possible association present in this cell was A\*24:02-B\*45:01-C\*16:01, observed in Hispanics, with HF = 0.00139. The other association present was likely A\*33:05-B\*14:02-C\*08:02, observed in Caucasians, with HF = 0.00025.

This cell was examined numerous times in the Exchange as cells 1565 (2016), 1504 (1013), 1357 (2009) and extracts 508 (2011) and 436 (2008). In this present retyping, > 90% agreement was achieved once again for all allele assignments.

**Cell 1700.** The reported HLA type for this cell from a Filipino donor was A\*11:01-A\*24:02-B\*39:01-B\*40:01-C\*07:02-DRB1\*09:01-DRB1\*15:02-DRB4\*01:03-DRB5\*01:02-DQA1\*01:01-DQA1\*03:02-DQB1\*03:03-DQB1\*05:01-DPA1\*02:02-DPB1\*01:01.

Likely associations present in this cell were A\*11:01-B\*39:01-C\*07:02 and A\*24:02-B\*40:01-C\*07:02, observed in Asian populations, with respective HF = 0.00619 and 0.00908.

Good agreement (> 90%) was achieved for all allele assignments.



**NEXT MAILING DATE: February 2, 2022**

*Happy Holidays!*

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**Table 7: Summary of the 425<sup>th</sup> Cell Exchange - DNA Typing**

**Cell 1697**

DNA Typing - class I	<u>11 labs High; 10 labs low- A</u>		<u>12 labs High; 10 labs low- B</u>		<u>11 labs High; 9 labs low- C</u>	
		%(n)		%(n)		%(n)
	A*02:06:01:01	9 (1)	B*35:14:01	25(3)	C*04:01:01	27(3)
	A*02:06:01	18(2)	B*35:14	75(9)	C*04:01	73(8)
	A*02:06	73(8)	B*35	100(10)	C*04	100(9)
	A*02	100(10)				
<u>11 labs High; 10 labs low- A</u>						
	%(n)					
A*24:02:01:01	9 (1)					
A*24:02:01	18(2)					
A*24:02	73(8)					
A*24	100(10)					

DNA Typing - class II	<u>10 labs High; 6 labs low-DRB1</u>		<u>7 labs High; 3 labs low-DRB3/4/5</u>		<u>8 labs High; 4 labs Low-DQA1</u>		<u>9 labs High; 6 labs Low-DQB1</u>		<u>7 labs High; 2 labs Low-DPA1</u>		<u>9 labs High; 4 labs Low-DPB1</u>	
		%(n)		%(n)		%(n)		%(n)		%(n)		%(n)
	DRB1*16:02:01	30(3)	DRB5*02:02:01	29(2)	DQA1*05:05:01	25(2)	DQB1*03:01:01	33(3)	DPA1*01:03:01	29(2)	DPB1*04:02:01	33(3)
	DRB1*16:02:01G	10(1)	DRB5*02:02:01G	14(1)	DQA1*05:05	75(6)	DQB1*03:01:01G	11(1)	DPA1*01:03	71(5)	DPB1*04:02	67(6)
	DRB1*16:02	60(6)	DRB5*02:02	57(4)	DQA1*05	100(4)	DQB1*03:01	56(5)	DPA1*01	100(2)	DPB1*04(DP402)	25(1)
	DRB1*16	83(5)	DRB5*02	67(2)			DQB1*03(DQ7)	33(2)			DPB1*04	75(3)
	DRB1*15	17(1)	DRB5*PRESENT	33(1)			DQB1*03	67(4)				

**Table 8: Summary of the 425<sup>th</sup> Cell Exchange - DNA Typing**

**Cell 1698**

DNA Typing - class I		<u>11 labs High;10 labs low- A</u>		<u>12 labs High; 10 labs low- B</u>		<u>11 labs High; 9 labs low- C</u>													
			%(n)		%(n)		%(n)												
	A*02:01:01:01	9	(1)	B*35:12:01:01	17	(2)	C*04:01:01:79	9	(1)										
	A*02:01:01	18	(2)	B*35:12:01	8	(1)	C*04:01:01	18	(2)										
	A*02:01	73	(8)	B*35:12	75	(9)	C*04:01	73	(8)										
	A*02	90	(9)	B*35	100	(10)	C*04	100	(9)										
	A*69	10	(1)																
DNA Typing - class I		<u>11 labs High;10 labs low- A</u>		<u>12 labs High; 10 labs low- B</u>		<u>12 labs High; 9 labs low- C</u>													
			%(n)		%(n)		%(n)												
	A*68:01:01:02	9	(1)	B*51:08:01:01	8	(1)	C*16:02:01:01	8	(1)										
	A*68:01:01	18	(2)	B*51:08:01	17	(2)	C*16:02:01	17	(2)										
	A*68:01	73	(8)	B*51:08	75	(9)	C*16:02	75	(9)										
	A*68	100	(10)	B*51	100	(10)	C*16	89	(8)										
							C*03	11	(1)										
DNA Typing - class II		<u>9 labs High; 6 labs low-DRB1</u>		<u>7 labs High; 2 labs low-DRB3/4/5</u>		<u>9 labs High; 4 labs Low-DQA1</u>		<u>9 labs High; 6 labs Low-DQB1</u>		<u>7 labs High; 2 labs Low-DPA1</u>		<u>9 labs High; 4 labs Low-DPB1</u>							
			%(n)		%(n)		%(n)		%(n)		%(n)		%(n)						
	DRB1*04:04:01	33	(3)	DRB3*02:02:01	29	(2)	DQA1*03:01:01	22	(2)	DQB1*03:01:01	11	(1)	DPA1*01:03:01	29	(2)	DPB1*04:01:01	22	(2)	
	DRB1*04:04	67	(6)	DRB3*02:02:01G	14	(1)	DQA1*03:01	78	(7)	DQB1*03:01:01G	11	(1)	DPA1*01:03:01G	14	(1)	DPB1*04:01:01G	11	(1)	
	DRB1*04	83	(5)	DRB3*02:02	57	(4)	DQA1*03	100	(4)	DQB1*03:01	78	(7)	DPA1*01:03	57	(4)	DPB1*04:01P	11	(1)	
	DRB1*12	17	(1)	DRB3*02	50	(1)			DQB1*03(DQ7)	33	(2)	DPA1*01	100	(2)	DPB1*04:01	56	(5)		
				DRB3*PRESENT	50	(1)			DQB1*03	67	(4)			DPB1*04(DP401)	25	(1)	DPB1*04	75	(3)
DNA Typing - class II		<u>9 labs High; 6 labs low-DRB1</u>		<u>7 labs High; 2 labs low-DRB3/4/5</u>		<u>8 labs High; 4 labs Low-DQA1</u>		<u>9 labs High; 6 labs Low-DQB1</u>		<u>7 labs High; 2 labs Low-DPA1</u>		<u>9 labs High; 4 labs Low-DPB1</u>							
			%(n)		%(n)		%(n)		%(n)		%(n)		%(n)						
	DRB1*12:01:01	33	(3)	DRB4*01:03:01	29	(2)	DQA1*05:05:01	25	(2)	DQB1*03:02:01	22	(2)			DPB1*04:02:01	22	(2)		
	DRB1*12:01:01G	11	(1)	DRB4*01:01:01G	14	(1)	DQA1*05:05	75	(6)	DQB1*03:02:01G	11	(1)			DPB1*04:02:01G	11	(1)		
	DRB1*12:01	56	(5)	DRB4*01:03	57	(4)	DQA1*05	100	(4)	DQB1*03:02	67	(6)			DPB1*04:02P	11	(1)		
	DRB1*12	100	(6)	DRB4*01	50	(1)			DQB1*03(DQ8)	33	(2)			DPB1*04:02	56	(5)			
				DRB4*PRESENT	50	(1)			DQB1*03	67	(4)			DPB1*04(DP402)	25	(1)	DPB1*04	50	(2)
														DPB1*04	50	(2)	DPB1*04	50	(2)
														DPB1*33	25	(1)			

**Table 9: Summary of the 425<sup>th</sup> Cell Exchange - DNA Typing**

**Cell 1699**

DNA Typing - class I	<u>9 labs High; 7 labs low- A</u>		<u>10 labs High; 8 labs low- B</u>		<u>9 labs High; 7 labs low- C</u>	
		%(n)		%(n)		%(n)
	A*24:02:01:01	11(1)	B*14:02:01	20(2)	C*08:02:01:01	11(1)
	A*24:02:01	11(1)	B*14:02	80(8)	C*08:02:01	11(1)
	A*24:02	78(7)	B*14	100(8)	C*08:02	78(7)
	A*24	100(7)			C*08	100(7)
<u>9 labs High; 8 labs low- A</u>		<u>10 labs High; 8 labs low- B</u>		<u>10 labs High; 6 labs low- C</u>		
	%(n)		%(n)		%(n)	
A*33:05	100(9)	B*45:01:01	20(2)	C*16:01:01:01	10(1)	
A*33	100(8)	B*45:01	80(8)	C*16:01:01	10(1)	
		B*45	88(7)	C*16:01	80(8)	
		B*59	12(1)	C*16	100(6)	

DNA Typing - class II	<u>8 labs High; 5 labs low-DRB1</u>		<u>5 labs High; 1 lab low-DRB3/4/5</u>		<u>6 labs High; 4 labs Low-DQA1</u>		<u>8 labs High; 5 labs Low-DQB1</u>		<u>5 labs High; 2 labs Low-DPA1</u>		<u>8 labs High; 4 labs Low-DPB1</u>	
		%(n)		%(n)		%(n)		%(n)		%(n)		%(n)
	DRB1*04:03:01	12(1)	DRB4*01:03:01	20(1)	DQA1*01:05:01	17(1)	DQB1*03:02:01	12(1)	DPA1*01:03:01	20(1)	DPB1*02:01:02:35	12(1)
	DRB1*04:03:01G	12(1)	DRB4*01:01:01G	20(1)	DQA1*01:05	83(5)	DQB1*03:02:01G	12(1)	DPA1*01:03	80(4)	DPB1*02:01P	12(1)
	DRB1*04:03	75(6)	DRB4*01:03	60(3)	DQA1*01	100(4)	DQB1*03:02	75(6)	DPA1*01	100(2)	DPB1*02:01	75(6)
	DRB1*04	100(5)	DRB4*PRESENT	100(1)			DQB1*03(DQ8)	20(1)			DPB1*02(DP201)	25(1)
							DQB1*03	80(4)			DPB1*02	75(3)
<u>8 labs High; 5 labs low-DRB1</u>		<u>7 labs High; 4 labs Low-DQA1</u>		<u>8 labs High; 5 labs Low-DQB1</u>		<u>5 labs High; 2 labs Low-DPA1</u>		<u>8 labs High; 4 labs Low-DPB1</u>				
	%(n)		%(n)		%(n)		%(n)		%(n)			
DRB1*10:01:01	12(1)	DQA1*03:01:01	14(1)	DQB1*05:01:01	25(2)	DPA1*02:01:01	20(1)	DPB1*03:01:01	12(1)			
DRB1*10:01:01G	12(1)	DQA1*03:01	86(6)	DQB1*05:01:01G	12(1)	DPA1*02:01	80(4)	DPB1*03:01:01G	12(1)			
DRB1*10:01	75(6)	DQA1*03	100(4)	DQB1*05:01	63(5)	DPA1*02	100(2)	DPB1*03:01P	12(1)			
DRB1*10	100(5)			DQB1*05	100(5)			DPB1*03:01	63(5)			
								DPB1*03	100(4)			



**Table 11. Individual laboratory results for Cell #1697 - Class I**

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*02	*24	*35	*35	*04	*04	*02:06	*24:02	*35:14	*35:11	*04:01	*04:01		
725	*02	*24	*35		*04								SSO	
731	*02	*24	*35	*35	*04	*04	*02:06:01	*24:02:01	*35:14:01	*35:14:01	*04:01:01	*04:01:01		
747	*02	*24	*35	*35	*04	*04	*02:06:01	*24:02:01	*35:14:01	*35:14:01	*04:01:01	*04:01:01	SSP SSO NGS	
762							*02:06	*24:02	*35:14		*04:01		NGS	
771	*02	*24	*35		*04		*02:06	*24:02	*35:14		*04:01		SSO NGS	
3808	*02	*24	*35	*35	*04	*04			*35:14	*35:14			SSO	
4079	*02	*24	*35		*04		*02:06	*24:02	*35:14		*04:01		SSP NGS	
4251							*02:06	*24:02	*35:14	*35:14	*04:01	*04:01	NGS	
5133							*02:06:01:01	*24:02:01:01	*35:14:01		*04:01:01		NGS	
5462							*02:06	*24:02	*35:14		*04:01		SSP SSO NGS	
8001							*02:06	*24:02	*35:14		*04:01		NGS	
6649	*02	*24	*35	*35									SSO	
8043							*02:06	*24:02	*35:14		*04:01			
8058	*02	*24	*35	*15(B70)	*04								SSP OTHER	
8103	*02	*24	*35	*35	*04	*04							SSO	

**Table 12a: Individual laboratory results for Cell #1697 - Class II**

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
731	*16	*16	5*02		*05	*05	*03	*03			*04	*04		
747	NT												SSP SSO NGS	
771	*16				*05		*03				*04		SSO NGS	
3808	*16	*16	NT	NT	*05	*05	*03(DQ7)	*03(DQ7)	*01	*01	*04(DP402)	*04(DP402)	SSO	
4079	*16		5*02				*03(DQ7)						SSP NGS	
6649													SSO	
8058	*15	*15	5*PRESENT				*03	*03					SSP OTHER	
8103	*16	*16			*05	*05	*03	*02	*01		*04	*04	SSO	

**Table 12b: Individual laboratory results for Cell #1697 - Class II**

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
731	*16:02:01	*16:02:01			*05:05	*05:05	*03:01:01	*03:01:01			*04:02:01	*04:02:01		
747	*16:02:01	*16:02:01	5*02:02:01	5*02:02:01	*05:05:01	*05:05:01	*03:01:01	*03:01	*01:03:01	*01:03:01	*04:02:01	*04:02:01	SSP SSO NGS	DRB1*16:64
771	*16:02						*03:01				*04:02		SSO NGS	
3808	*16:02	*16:02:01G							*01:03	*01:03			SSO	
4079	*16:02		5*02:02		*05:05		*03:01		*01:03		*04:02		SSP NGS	
4251	*16:02:01G	*16:02:01G	5*02:02:01G	5*02:02:01G	*05:05	*05:05	*03:01:01G	*03:01:01G	*01:03	*01:03	*04:02	*04:02	NGS	
5133	*16:02:01		5*02:02:01		*05:05:01		*03:01:01		*01:03:01		*04:02:01		NGS	
5462	*16:02		5*02:02		*05:05		*03:01		*01:03		*04:02		SSP SSO NGS	
8001	*16:02		5*02:02		*05:05		*03:01				*04:02		NGS	DQB1*03:276
8043	*16:02		5*02:02		*05:05		*03:01		*01:03		*04:02			N

**Table 13. Individual laboratory results for Cell #1698 - Class I**

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*02	*68	*35	*51	*04	*16	*02:01	*68:01	*35:12	*51:08	*04:01	*16:02		
725	*02	*68	*35	*51	*04	*16							SSO	
731	*02	*68	*35	*51	*04	*16	*02:01:01:01	*68:01:01	*35:12:01:01	*51:08:01	*04:01:01	*16:02:01		
747	*02	*68	*35	*51	*04	*16	*02:01:01	*68:01:01	*35:12:01	*51:08:01	*04:01:01	*16:02:01	SSP SSO NGS	
762							*02:01	*68:01	*35:12	*51:08	*04:01	*16:02	NGS	
771	*02	*68	*35	*51	*04	*16	*02:01	*68:01	*35:12	*51:08	*04:01	*16:02	SSO NGS	
3808	*02	*68	*35	*51	*04	*16			*35:12	*51:08		*16:02	SSO	
4079	*02	*68	*35	*51	*04	*16	*02:01	*68:01	*35:12	*51:08	*04:01	*16:02	SSP NGS	
4251							*02:01	*68:01	*35:12	*51:08	*04:01	*16:02	NGS	
5133							*02:01:01:01	*68:01:01:02	*35:12:01:01	*51:08:01:01	*04:01:01:79	*16:02:01:01	NGS	
5462							*02:01	*68:01	*35:12	*51:08	*04:01	*16:02	SSP SSO NGS	
6649	*02	*68	*35	*51									SSO	
8001							*02:01	*68:01	*35:12	*51:08	*04:01	*16:02	NGS	
8043							*02:01	*68:01	*35:12	*51:08	*04:01	*16:02		
8058	*69	*68	*35	*51	*04	*03							SSP OTHER	
8103	*02	*68	*35	*51	*04	*16							SSO	



**Table 14a: Individual laboratory results for Cell #1698 - Class II**

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
731	*04	*12			*03	*05	*03	*03			*04	*04		
747	NT												SSP SSO NGS	
771	*04	*12			*03	*05	*03	*03			*04	*04	SSO NGS	
3808	*04	*12	NT	NT	*03	*05	*03(DQ7)	*03(DQ8)	*01	*01	*04(DP401)	*04(DP402)	SSO	
4079	*04	*12	3*02	4*01			*03(DQ7)	*03(DQ8)					SSP NGS	
8058	*12	*12	3*PRESENT	4*PRESENT			*03	*03					SSP OTHER	
8103	*04	*12			*03	*05	*03	*03	*01	*01	*04	*33	SSO	

**Table 14b: Individual laboratory results for Cell #1698 - Class II**

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
731	*04:04:01	*12:01:01			*03:01	*05:05	*03:01	*03:02			*04:01	*04:02		
747	*04:04:01	*12:01:01	3*02:02:01	4*01:03:01	*03:01:01	*05:05:01	*03:01	*03:02:01	*01:03:01	*01:03:01	*04:01:01	*04:02:01	SSP SSO NGS	DPB1*105:01 DPB1*126:01 DRB1*12:10 DQB1*03:289 DQB1*03:416
771	*04:04	*12:01					*03:01	*03:02			*04:01	*04:02	SSO NGS	
3808					*03:01				*01:03	*01:03			SSO	
4079	*04:04	*12:01	3*02:02	4*01:03	*03:01	*05:05	*03:01	*03:02	*01:03		*04:01	*04:02	SSP NGS	
4251	*04:04	*12:01:01G	3*02:02:01G	4*01:01:01G	*03:01	*05:05	*03:01:01G	*03:02:01G	*01:03:01G	*01:03	*04:01:01G	*04:02:01G	NGS	
5133	*04:04:01	*12:01:01	3*02:02:01	4*01:03:01	*03:01:01	*05:05:01	*03:01:01	*03:02:01	*01:03:01		*04:01:01	*04:02:01	NGS	DPB1*126:01:01 DPB1*105:01:01
5462	*04:04	*12:01	3*02:02	4*01:03	*03:01	*05:05	*03:01	*03:02	*01:03		*04:01P	*04:02P	SSP SSO NGS	DPB1*126:01 DPB1*105:01
8001	*04:04	*12:01	3*02:02	4*01:03	*03:01	*05:05	*03:01	*03:02			*04:01	*04:02	NGS	DPB1*126:01 DPB1*665:01 DPB1*939:01 DPB1*105:01
8043	*04:04	*12:01	3*02:02	4*01:03	*03:01	*05:05	*03:01	*03:02	*01:03		*04:01	*04:02		

**Table 15. Individual laboratory results for Cell #1699 - Class I**

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*24	*33	*14	*45	*08	*16	*24:02	*33:05	*14:02	*45:01	*08:02	*16:01		C*16:02
725	*24	*33	*14	*45	*08	*16							SSO	
731	*24	*33	*14	*45	*08	*16	*24:02:01	*33:05	*14:02:01	*45:01:01	*08:02:01	*16:01:01		
747	NT												SSP SSO NGS	
762							*24:02	*33:05	*14:02	*45:01	*08:02	*16:01	NGS	
771	*24	*33	*14	*45	*08	*16	*24:02	*33:05	*14:02	*45:01	*08:02	*16:01	SSO NGS	
3808	*24	*33	*14	*45	*08	*16			*14:02	*45:01		*16:01	SSO	
4079	NT	NT	NT	NT	NT	NT	NT	NT		NT	NT	NT	SSP NGS	
4251							*24:02	*33:05	*14:02	*45:01	*08:02	*16:01	NGS	
5133							*24:02:01:01	*33:05	*14:02:01	*45:01:01	*08:02:01:01	*16:01:01:01	NGS	
5462							*24:02	*33:05	*14:02	*45:01	*08:02	*16:01	SSP SSO NGS	
8001							*24:02	*33:05	*14:02	*45:01	*08:02	*16:01	NGS	
6649	*24	*33	*14	*45									SSO	
8043							*24:02	*33:05	*14:02	*45:01	*08:02	*16:01		
8058		*33	*14	*59	*08								SSP OTHER	
8103	*24	*33	*14	*45	*08	*16							SSO	

**Table 16a: Individual laboratory results for Cell #1699 - Class II**

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
731	*04	*10			*01	*03	*03	*05			*02	*03		
747	NT												SSP SSO NGS	
771	*04	*10			*01	*03	*03	*05			*02	*03	SSO NGS	
3808	*04	*10	NT	NT	*01	*03	*03(DQ8)	*05	*01	*02	*02(DP201)	*03	SSO	
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP NGS	
8058	*04	*10	4*PRESENT	4*PRESENT			*03	*05					SSP OTHER	
8103	*04	*10			*01	*03	*03	*05	*01	*02	*02	*03	SSO	

**Table 16b: Individual laboratory results for Cell #1699 - Class II**

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
731	*04:03	*10:01			*01:05	*03:01	*03:02	*05:01:01			*02:01	*03:01		
747	NT												SSP SSO NGS	
771	*04:03	*10:01					*03:02	*05:01			*02:01	*03:01	SSO NGS	
3808	*04:03	*10:01				*03:01	*03:02	*05:01	*01:03	*02:01	*02:01	*03:01:01G	SSO	
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP NGS	
4251	*04:03:01G	*10:01:01G	4*01:01:01G		*01:05	*03:01	*03:02:01G	*05:01:01G	*01:03	*02:01:01G	*02:01	*03:01	NGS	
5133	*04:03:01	*10:01:01	4*01:03:01		*01:05:01	*03:01:01	*03:02:01	*05:01:01	*01:03:01	*02:01:01	*02:01:02:35	*03:01:01	NGS	
5462	*04:03	*10:01	4*01:03	NP	*01:05	*03:01	*03:02	*05:01	*01:03	*02:01	*02:01P	*03:01P	SSP SSO NGS	DPB1*352:01 DPB1*124:01
8001	*04:03	*10:01	4*01:03		*01:05	*03:01	*03:02	*05:01			*02:01	*03:01	NGS	
8043	*04:03	*10:01	4*01:03		*01:05	*03:01	*03:02	*05:01	*01:03	*02:01	*02:01	*03:01		

**Table 17. Individual laboratory results for Cell #1700 - Class I**

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*11	*24	*39	*40	*07	*07	*11:01	*24:02	*39:01	*40:01	*07:02	*07:02	SSO	
725	*11	*24	*39	*40(B60)	*07									
731	*11	*24	*39	*40	*07	*07	*11:01	*24:02:01	*39:01	*40:01	*07:02:01	*07:02:01	SSP SSO NGS	
747	NT													
762							*11:01	*24:02	*39:01	*40:01	*07:02		NGS	
771	*11	*24	*39	*40	*07		*11:01	*24:02	*39:01	*40:01	*07:02		SSO NGS	
3808	*11	*24	*39	*40(B60)	*07	*07					*07:02:01G	*07:02:01G	SSO	
4079	NT	NT	NT	NT	NT	NT	NT	NT		NT	NT	NT	SSP NGS	
4251							*11:01	*24:02	*39:01	*40:01	*07:02	*07:02	NGS	
5133							*11:01:01:01	*24:02:01:01	*39:01:01:03	*40:01:02:04	*07:02:01:15		NGS	
5462							*11:01	*24:02	*39:01	*40:01	*07:02		SSP SSO NGS	
8114							*11:01	*24:02	*39:01	*40:01	*07:02		NGS	
6649	*11	*24	*39	*40(B60)									SSO	
8043							*11:01	*24:02	*39:01	*40:01	*07:02			
8058	*11	*24	*39	*40(B60)	*07	*17							SSP OTHER	
8103	*11	*24	*39	*40	*07	*07							SSO	

**Table 18a: Individual laboratory results for Cell #1700 - Class II**

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
731	*09	*15			*01	*03	*03	*05			*01	*01		
747	NT												SSP SSO NGS	
771	*09	*15			*01	*03	*03	*05			*01		SSO NGS	
3808	*09	*15	NT	NT	*01	*03	*03(DQ9)	*05	*02	*02	*01		SSO	
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP NGS	
8043														
8058	*11	*15	4*PRESENT	5*PRESENT			*06	*05					SSP OTHER	
8103	*09	*15			*01	*03	*03	*05	*02	*02	*01	*01	SSO	

**Table 18b: Individual laboratory results for Cell #1700 - Class II**

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
731	*09:01	*15:02			*01:01	*03:02	*03:03	*05:01			*01:01	*01:01		
747	NT												SSP SSO NGS	
771	*09:01	*15:02					*03:03	*05:01			*01:01		SSO NGS	
3808	*09:01:02G	*15:02:01G					*03:03	*05:01			*01:01	*01:01	SSO	
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP NGS	
4251	*09:01:02G	*15:02:01G	4*01:03	5*01:02	*01:01	*03:02	*03:03:02G	*05:01:01G	*02:02	*02:02	*01:01	*01:01	NGS	
5133	*09:01:02	*15:02:01	4*01:03:02	5*01:02	*01:01:01	*03:02:01	*03:03:02	*05:01:24	*02:02:02		*01:01:01		NGS	
5462	*09:01	*15:02	4*01:03	5*01:02	*01:01	*03:02	*03:03	*05:01	*02:02		*01:01		SSP SSO NGS	
8001	*09:01	*15:02	4*01:03	5*01:02	*01:01	*03:02	*03:03	*05:01			*01:01		NGS	
8043	*09:01	*15:02	4*01:03	5*01:02	*01:01	*03:02	*03:03	*05:01	*02:02		*01:01			