

## American Foundation for Donation and Transplantation

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### HLA Typing Summary Report - March 2010

Five whole blood samples were sent out to 29 laboratories. HLA typing results were obtained for Serology typing, Low resolution DNA typing with translation to HLA Antigens, and High Resolution typing. Grading was provided for Antigen typing and High Resolution typing. Consensus will be based on 80% concordance. Serology only laboratories will not be graded for antigens that do not have a serological equivalent. Laboratories have the option to type for DQA1 and DPB1 and DPA1. Inter-laboratory results can be compared for self-assessment .

#### Consensus Results

Cell # 482

Locus	Antigen	Cons	High Res	Cons	Low Res	Cons	Serology	Cons
A	2	100	0207	100	02	100	2	100
A	68	100	6801	100	68	100	68	80
B	62	97	1501	90	15	100	62	95
B	76	90	1512	100	15	89	76	80
Bw4	N	100			N	100	N	100
Bw6	P	100			P	100	P	100
C	9(3)	93	0303	100	03	93	3(9)	100
C								
DR	4	100	0401	100	04	100	4	100
DR	12	100	1202	100	12	100	12	100
DRw	52	100	3*0301	100	DRB3	100	52	100
DRw	53	100	4*0103	100	DRB4	100	53	100
DQ	7	100	0301	100	03	100	3	100
DQ	8	97	0302	100				
# labs	29		10		26		20	

**Comments:** Excellent overall consensus. Three labs failed to identify B76 in the presence of B62. One lab did not identify B62 in the presence of B76. UNOS requires that laboratories be able to identify B62. Additional testing must be done if the panel used does not resolve this ambiguity.

**Cell # 483**

Locus	Antigen	Cons	High Res	Cons	Low Res	Cons	Serology	Cons
A	2	100	0201	100	02	100	2	100
A								
B	44	100	4402	100	44	100	44	95
B	55	100	5501	100	55	100	55	95
Bw4	P	100			P	100	P	100
Bw6	P	100			P	100	P	100
C	5	100	0303	100	03	92	5	100
C	9	90	0501	100	05	100	9	100
DR	1	100	0101	100	01	100	1	100
DR	8	100	0801	100	08	100	8	100
DRw								100
DRw								
DQ	4	100	0402	100	04	100	4	100
DQ	5	97	0501	100	05	100	5(1)	100
<b># labs</b>	29		10		26		20	

**Comments:** Excellent concordance for all methods

**Cell # 484**

Locus	Antigen	Cons	High Res	Cons	Low Res	Cons	Serology	Cons
A	1	100	0101	100	01	100	1	100
A	3	100	0301	100	03	100	3	100
B	8	100	0801	100	08	100	8	100
B	60	100	4001	100	40	100	60	95
Bw4	N	100			N	96	N	95
Bw6	P	100			P	100	P	100
C	10	90	0304	100	03	92	3(10)	100
C	7	100	0701	100	07	100	7	100
DR	17	100	0301	100	13	100	17	90
DR	13	100	1302	100	03	96	13	100
DRw	52	97	3*0101	100	DRB3	100	52	100
DRw			3*0301	100				
DQ	2	100	0201	100	02	100	2	100
DQ	6	90	0604	100	06	96	1(6)	95
<b># labs</b>	29		10		26		20	

**Comments:** Excellent concordance with all methods.

**Cell # 485**

Locus	Antigen	Cons	High Res	Cons	Low Res	Cons	Serology	Cons
A	24	100	2402	100	24	100	24	95
A	31	100	3101	100	31	100	31	100
B	61	100	4002	100	40	100	61	95
B	46	100	4601	100	46	100	46	95
Bw4	N	100			N	100	N	100
Bw6	P	100			P	100	P	100
C	1	100	0102	100	01	100	1	100
C	10	83	0304	100	03	100	3(10)	100
DR	9	100	0901	100	09	100	9	100
DR	11	100	1101	100	11	100	11	100
DRw	52	100	3*0202	100	DRB3	100	52	100
DRw	53	100	4*0103	100	DRB4	100	53	100
DQ	7	100	0301	100	03	100	7	80
DQ	9	97	0303	100			3(9)	100
<b># labs</b>	29		10		26		20	

**Comments:** Excellent concordance

**Cell # 486**

Locus	Antigen	Cons	High Res	Cons	Low Res	Cons	Serology	Cons
A	11	100	1101	100	11	100	11	100
A	23	100	2301	100	23	100	23	95
B	7	100	0702	100	07	100	7	100
B								
Bw4	N	100			P	100	N	100
Bw6	P	100			N	100	P	100
C	7	100	0702	100	07	96	7	100
C								
DR	4	100	0401	100	04	100	4	100
DR	8	100	0806	100	08	100	8	100
DRw	53	100	4*0103	100	DRB4	100	53	100
DRw								
DQ	7	97	0301	100	03	100	7(3)	100
DQ								
<b># labs</b>	29		10		26		20	

**Comments:** Excellent concordance with all methods

## Laboratory comparison for DQA1 and DPB1 typing

Cell	Lo Res/DQA1 - 1	Lo Res/DQA1 - 2	Lo Res/DPA1 - 1	Lo Res/DPA1 - 2	Lo Res/DPB1 - 1	Lo Res/DPB1 - 2
482	03	06	NT	NT		
482	03	06	NT	NT	02	04
482	03	06	NT	NT	NT	NT
482	NT	NT	NT	NT	02	04
482	03	06	NT	NT	NT	NT
482	03	06	NT	NT	NT	NT
483	01	04	NT	NT	NT	NT
483	01	04	NT	NT		
483	01	04	NT	NT	04	
483	01	04	NT	NT	NT	NT
483	NT	NT	NT	NT	04	04
483	01	04	NT	NT	NT	NT
483	01	04	NT	NT	NT	NT
484	01	05	NT	NT	NT	NT
484	01	05	NT	NT		
484	01	05	NT	NT	01	04
484	01	05	NT	NT	NT	NT
484	NT	NT	NT	NT	01	04
484	01	05	NT	NT	NT	NT
484	01	05	NT	NT	NT	NT
485	03	05	NT	NT	NT	NT
485	03	05	NT	NT		
485	03	05	NT	NT	02	05
485	03	05	NT	NT	NT	NT
485	NT	NT	NT	NT	02	05
485	03	05	NT	NT	NT	NT
485	03	05	NT	NT	NT	NT
486	03	05	NT	NT	NT	NT
486	03	05	NT	NT		
486	03	05	NT	NT	01	04
486	03	05	NT	NT	NT	NT
486	NT	NT	NT	NT	01	04
486	03	05	NT	NT	NT	NT
486	03	05	NT	NT	NT	NT

**Comments:** 100% concordance for all DQA1 And DPB1 typing reported. No labs reported results for DPA1.