



Laboratory Investigation Report

Patient Name	Centre
Age/Gender	OP/IP No/UHID
MaxID/Lab ID	Collection Date/Time
Ref Doctor	Reporting Date/Time



Single Antigen Bead Assay Class I

Lab Number – SAB 066/2023

Clinical History:

Patient is known case of Aplastic Anaemia. Posted for Allogenic bone marrow transplant. All the three donors previously showed donor specific antibodies. Patient treated with given 6 sittings of plasma exchange followed by 3 doses of IVIG.

Pre-transplant work up:

Flow cytometry HLA T & B cell cross match (11/Apr/2023) – T cell – Negative, B cell – Positive

Previous SAB: SAB 039/2023 & SAB 059/2023

Name of the Donor : Addis Hiwot

Age/Sex: 15 years / Male

HLA DNA Typing

Name	A*	B*	C*	DRB1*	DQB1*	DPB1*
Mst. Yeabsira Hiwot Romseged (Patient)	A*02:05:01 A*03:01:01	B*14:02:01 B*15:220:01	C*04:01:01 C*08:02:01	DRB1*13:02:01 DRB1*15:03:01	DQB1*06:02:01 DQB1*06:09:01	DPB1*15:01:01 DPB1*105:01:01
Addis Hiwot (Donor 1)	A*02:22:01:01 A*03:01:01G	B*14:02:01G B*44:03:01G	C*07:01:01G C*08:02:01G	DRB1*13:02:01G DRB1*13:02:01G	DQB1*06:09:01G DQB1*06:09:01G	DPB1*02:01:02G DPB1*04:02:01G

Interpretation:

Comparison of donor specific antibodies

DSA	31/03/2023		24/04/2023		05/05/2023	
	MFI	BCM	MFI	BCM	MFI	BCM
B*44:03	1988	1731	1140	883	366	109
C*07:01	8924	8629	4314	4019	879	584
C*08:02	1570	1301	1159	890	341	72

Comment:

This test is done to detect IgG antibodies against Class I & Class II glycoproteins. These beads are composed of different luminex beads to which purified recombinant HLA class I & II glycoproteins are conjugated. HLA molecules can become targets of antibody response in people during pregnancy, transfusion of blood products or organ transplant rejection. Generally, alloimmunization leads to production of HLA antibodies in approximately 33% of exposed individuals. The presence or absence of these specific HLA antibodies has a role in determining the survival of transplant allograft.

Dr. Nitin Dayal, MD  
Principal Consultant & Head,  
Haematopathology

**Class I Single Antigen Results**  
**Batch ID: 20230506 LSA I**

**Patient Name:**                      **Patient DOB:**                      **Draw Date:**                      **Donor Number:**                      **Expiration Date:**  
**Sample ID:**                      **Lot ID:**                      **Donor Center #:**                      **Accession #:**  
**Patient HLA Type:**                      **Report By:**  
**Method Type: Legacy Calculation**

**Positive CON MFI:** 19228    **Negative CON MFI:** 176                      **Analysis Mode:** Manual                      **% PRA:** 11

Bead	Raw Value	BCM	BCR	AD-BCR	Assignment	A	B	C	Bw	A Serology	B Serology	C Serology	Antigen Density	Epitopes
117	19414	19174	86.37	79.02	Positive	<b>A*29:01</b>				A29(19)			1.0930	
137	5847	5604	24.26	21.78	Positive		<b>B*13:02</b>		Bw4		B13		1.1140	
134	5833	5573	24.13	18.28	Positive		<b>B*07:02</b>		Bw6		B7		1.3200	
150	3751	3570	15.45	10.44	Positive		<b>B*27:08</b>		Bw6		B2708		1.4800	
112	2922	2703	12.18	9.87	Positive	<b>A*23:01</b>			Bw4	A23(9)			1.2330	
149	2882	2673	11.57	8.64	Positive		<b>B*27:05</b>		Bw4		B27		1.3390	
118	2355	2119	9.54	8.03	Positive	<b>A*29:02</b>				A29(19)			1.1880	
113	2349	2110	9.50	7.25	Positive	<b>A*24:02</b>			Bw4	A24(9)			1.3110	
135	2207	1999	8.65	6.79	Positive		<b>B*07:03</b>		Bw6		B703		1.2740	
156	1659	1439	6.23	5.01	Positive		<b>B*40:01</b>		Bw6		B60(40)		1.2440	
180	1578	1371	5.94	5.01	Positive		<b>B*81:01</b>		Bw6		B81		1.1840	
143	1315	1119	4.84	3.39	Positive		B*15:12		Bw6		B76(15)		1.4290	
114	1370	1111	5.00	3.53	Positive	A*24:03			Bw4	A2403			1.4180	
140	1105	907	3.93	3.04	Positive		B*15:01		Bw6		B62(15)		1.2920	
145	1085	881	3.81	2.66	Positive		B*15:16		Bw4		B63(15)		1.4360	
141	911	679	2.94	2.40	Negative		B*15:02		Bw6		B75(15)		1.2230	
191	902	629	2.08	2.95	Negative			C*07:02				Cw7	0.7050	
190	879	584	1.93	2.61	Negative			C*07:01				Cw7	0.7410	
144	792	568	2.46	1.97	Negative		B*15:13		Bw4		B77(15)		1.2480	
178	787	532	2.30	1.96	Negative		B*73:01				B73		1.1780	
174	735	528	2.29	1.73	Negative		B*57:01		Bw4		B57(17)		1.3220	
172	754	498	2.16	1.97	Negative		B*55:01		Bw6		B55(22)		1.0960	
157	682	470	2.03	1.54	Negative		B*40:02		Bw6		B61(40)		1.3200	
166	593	395	1.71	1.27	Negative		B*49:01		Bw4		B49(21)		1.3490	
173	596	371	1.60	1.37	Negative		B*56:01		Bw6		B56(22)		1.1720	
181	577	359	1.55	1.33	Negative		B*82:02		Bw6				1.1710	
198	648	332	1.10	1.70	Negative			C*17:01					0.6480	
165	606	316	1.37	1.63	Negative		B*48:01		Bw6		B48		0.8390	
177	498	308	1.33	0.94	Negative		B*67:01		Bw6		B67		1.4140	
164	494	297	1.28	0.92	Negative		B*47:01		Bw4		B47		1.3900	
168	543	296	1.28	1.05	Negative		B*51:01		Bw4		B51(5)		1.2220	
159	545	288	1.25	1.08	Negative		B*42:01		Bw6		B42		1.1490	
121	453	246	1.11	0.93	Negative	A*32:01			Bw4	A32(19)			1.1950	
182	467	207	0.69	0.67	Negative			C*01:02				Cw1	1.0230	
176	421	203	0.88	0.70	Negative		B*59:01		Bw4		B59		1.2540	
128	416	202	0.91	0.72	Negative	A*66:02				A66(10)			1.2560	
186	480	195	0.64	1.37	Negative			C*04:01				Cw4	0.4690	
115	388	190	0.86	0.67	Negative	A*25:01			Bw4	A25(10)			1.2820	
154	384	166	0.72	0.53	Negative		B*38:01		Bw4		B38(16)		1.3480	
169	412	164	0.71	0.59	Negative		B*52:01		Bw4		B52(5)		1.2110	
199	440	153	0.50	0.60	Negative			C*18:01					0.8420	
185	429	150	0.50	0.50	Negative			C*03:04				Cw10(w3)	1.0020	
183	414	149	0.49	0.69	Negative			C*02:02				Cw2	0.7190	
125	376	148	0.66	0.50	Negative	A*36:01				A36			1.3400	
152	398	137	0.59	0.56	Negative		B*35:08		Bw6		B35		1.0650	
187	414	134	0.44	0.49	Negative			C*04:03					0.9030	
148	325	131	0.57	0.41	Negative		B*27:03		Bw4		B27		1.3790	
162	368	128	0.55	0.47	Negative		B*45:01		Bw6		B45(12)		1.1650	
170	333	126	0.55	0.46	Negative		B*53:01		Bw4		B53		1.1760	
171	428	125	0.54	0.49	Negative		B*54:01		Bw6		B54(22)		1.1050	
195	406	123	0.41	0.44	Negative			C*14:02					0.9300	
196	373	119	0.39	0.42	Negative			C*15:02					0.9430	

103	345	117	0.53	0.42	Negative	A*01:01			A1			1.2690
197	381	115	0.38	0.48	Negative			C*16:01				0.7900
163	439	113	0.49	0.49	Negative		B*46:01			B46		0.9930
161	366	109	0.47	0.36	Negative		B*44:03		Bw4	B44(12)		1.3030
188	406	105	0.35	0.47	Negative			C*05:01			Cw5	0.7420
110	291	94	0.42	0.31	Negative	A*11:01			A11			1.3610
175	316	94	0.41	0.35	Negative		B*58:01		Bw4	B58(17)		1.1540
120	354	93	0.42	0.42	Negative	A*31:01				A31(19)		1.0080
138	333	92	0.40	0.33	Negative		B*14:01		Bw6	B64(14)		1.2190
179	335	84	0.36	0.32	Negative		B*78:01		Bw6	B78		1.1200
106	312	82	0.37	0.31	Negative	A*02:02			A2			1.1730
153	334	79	0.34	0.26	Negative		B*37:01		Bw4	B37		1.3130
147	302	76	0.33	0.25	Negative		B*18:01		Bw6	B18		1.3320
126	312	74	0.33	0.28	Negative	A*43:01				A43		1.1870
158	327	73	0.32	0.28	Negative		B*41:01		Bw6	B41		1.1420
151	320	72	0.31	0.26	Negative		B*35:01		Bw6	B35		1.2060
193	341	72	0.24	0.26	Negative			C*08:02			Cw8	0.9160
119	344	69	0.31	0.28	Negative	A*30:01				A30(19)		1.0900
192	302	67	0.22	0.22	Negative			C*08:01			Cw8	1.0140
184	332	65	0.21	0.22	Negative			C*03:03			Cw9(w3)	0.9510
189	313	62	0.21	0.19	Negative			C*06:02			Cw6	1.0800
160	302	58	0.25	0.21	Negative		B*44:02		Bw4	B44(12)		1.1970
146	249	54	0.23	0.17	Negative		B*15:18		Bw6	B71(70)		1.3910
139	381	52	0.23	0.21	Negative		B*14:02		Bw6	B65(14)		1.0570
194	324	44	0.15	0.14	Negative			C*12:02				1.0250
136	252	42	0.18	0.13	Negative		B*08:01		Bw6	B8		1.3840
129	256	40	0.18	0.15	Negative	A*68:01				A68(28)		1.2010
109	250	36	0.16	0.13	Negative	A*03:01				A3		1.2120
122	266	36	0.16	0.15	Negative	A*33:01				A33(19)		1.1020
155	245	36	0.16	0.11	Negative		B*39:01		Bw6	B3901		1.3700
130	240	35	0.16	0.13	Negative	A*68:02				A68(28)		1.2200
107	256	30	0.14	0.11	Negative	A*02:03				A203		1.2060
108	282	30	0.14	0.12	Negative	A*02:05				A2		1.1600
133	251	25	0.11	0.10	Negative	A*80:01				A80		1.1640
132	275	24	0.11	0.10	Negative	A*74:01				A74(19)		1.0850
116	247	23	0.10	0.08	Negative	A*26:01				A26(10)		1.2790
167	231	16	0.07	0.05	Negative		B*50:01		Bw6	B50(21)		1.3300
123	268	10	0.04	0.04	Negative	A*33:03				A33(19)		1.1000
104	244	6	0.02	0.02	Negative	A*02:01				A2		1.0770
142	233	4	0.02	0.01	Negative		B*15:03		Bw6	B72(70)		1.2570
127	222	3	0.01	0.01	Negative	A*66:01				A66(10)		1.2470
124	229	0	0.00	0.00	Negative	A*34:02				A34(10)		1.1600
111	266	-8	-0.04	-0.03	Negative	A*11:02				A11		1.1360
131	253	-27	-0.12	-0.13	Negative	A*69:01				A69(28)		0.9300

Reviewer Comment:

Date:

Completed By:

Date:

Approved By:

Date:

Reviewed By:

Immucor, Inc.

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