

UK NEQAS for H&I Scheme 2B - Crossmatching by Flow Cytometry

T-CELL AND B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B02/2018 OS PC (COMPARED TO LOCAL NEGATIVE CONTROL)

DISPATCHED ON 27 FEBRUARY 2018

HLA PHENOTYPE OF BLOOD DONOR: HLA-A1, A2; B8, B37; Cw6, Cw7; DR15, DR17; DQ2, DQ6

Summary of Results													
T-cells					B-cells								
Lab No.	Serum 1	Serum 2	Serum 3	Serum 4	Serum 1	Serum 2	Serum 3	Serum 4	Date Received	Date Tested	Comments		
112	NT	NT	NT	NT	NT	NT	NT	NT	07-Mar	07-Mar	Poor cell viability		
115	Positive	Negative	Negative	Negative	Positive	Negative	Negative	Negative	28-Feb	01-Mar	Many apoptotic cells and little nber of B-cells		
117	Positive	Negative	Negative	Negative	Positive	Negative	Negative	Negative	01-Mar	01-Mar			
118	Positive	Negative	Negative	Negative	Positive	Negative	Negative	Negative	28-Feb	28-Feb			
119	Positive	Negative	Negative	Negative	Positive	Negative	Negative	Negative	27-Feb	28-Feb			
120	Positive	Negative	Negative	Negative	Positive	Negative	Negative	Negative	28-Feb	01-Mar			
122	Positive	Negative	Positive	Positive	Positive	Negative	Negative	Negative	28-Feb	01-Mar			
130	Positive	Negative	Positive	Positive	Positive	Negative	Negative	Positive	28-Feb	02-Mar			
133	Positive	Negative	Negative	Negative	Positive	Negative	Negative	Negative	01-Mar	02-Mar			
138	Positive	Negative	Negative	Negative	Positive	Negative	Negative	Equivocal	01-Mar	01-Mar			
139	Positive	Negative	Negative	Positive	Positive	Negative	Negative	Equivocal	02-Mar	02-Mar			
143	NT	NT	NT	NT	NT	NT	NT	NT	01-Mar	01-Mar	Poor cell viability		
144	Positive	Negative	Negative	Negative	Positive	Negative	Negative	Negative	28-Feb	01-Mar	Serum 4 with T-cells displays a weak positive reaction which is discrepant with the negative reaction observed on B-cells		
145	Positive	Negative	Negative	Negative	Positive	Negative	Negative	Negative	28-Feb	01-Mar			
147	Positive	Negative	Negative	Equivocal	Positive	Negative	Negative	Equivocal	01-Mar	01-Mar			
149	Positive	Negative	Negative	Negative	Positive	Negative	Negative	Negative	28-Feb	01-Mar	Cell preparation had very few B-cells. Number of gated B-cells was significantly below the lowest acceptable threshold number (<100) Strong background on B-cells		
154	Positive	Negative	Negative	Equivocal	Positive	Negative	Negative	Negative	01-Mar	02-Mar			
157	Positive	Negative	Negative	Equivocal	Positive	Negative	Negative	Negative	28-Feb	28-Feb			
159	Positive	Negative	Negative	Equivocal	Positive	Negative	Negative	Negative	28-Feb	01-Mar			
160	Positive	Negative	Negative	Negative	Positive	Negative	Negative	Negative	28-Feb	01-Mar			
163	Positive	Negative	Negative	Positive	Positive	Negative	Negative	Negative	28-Feb	01-Mar			
167	Positive	Negative	Negative	Positive	Positive	Negative	Negative	Negative	28-Feb	01-Mar	No results returned		
169	NT	NT	NT	NT	NT	NT	NT	NT	01-Mar	02-Mar	Delayed delivery		
176	Positive	Negative	Negative	Negative	Positive	Negative	Negative	Negative	28-Feb	01-Mar			
189	Positive	Negative	Negative	Negative	Positive	Negative	Negative	Negative	02-Mar	NT			
190	NT	NT	NT	NT	NT	NT	NT	NT	28-Feb	01-Mar			
191	Positive	Negative	Negative	Positive	Positive	Negative	Negative	Negative	28-Feb	01-Mar			
193	Positive	Negative	Negative	Negative	Positive	Negative	Negative	Negative	28-Feb	01-Mar			
194	Positive	Negative	Negative	Negative	Positive	Negative	Negative	Negative	28-Feb	28-Feb			
195	Negative	Negative	Negative	Negative	Positive	Negative	Negative	Negative	02-Mar	02-Mar			
201	Positive	Negative	Negative	Negative	Positive	Negative	Negative	Negative	28-Feb	28-Feb			
209	Positive	Negative	Negative	Positive	Positive	Negative	Negative	Negative	27-Feb	01-Mar			
218	Positive	Negative	Negative	Negative	Positive	Negative	Negative	Negative	08-Mar	08-Mar	We received the samples with aggregated cells		
220	Positive	Negative	Negative	Positive	Positive	Negative	Negative	Positive	28-Feb	01-Mar			
235	Negative	Negative	Negative	Negative	Positive	Negative	Negative	Negative	28-Feb	28-Feb			
238	Negative	Negative	Negative	Negative	Positive	Negative	Negative	Negative	28-Feb	01-Mar			
240	Positive	Negative	Negative	Negative	Positive	Positive	Negative	Positive	01-Mar	01-Mar			
246	Positive	Negative	Negative	Negative	Positive	Negative	Negative	Negative	28-Feb	28-Feb			
252	Negative	Negative	Negative	Negative	Positive	Positive	Negative	Negative	01-Mar	01-Mar			
260	Positive	Positive	Positive	Positive	Positive	Negative	Negative	Negative	01-Mar	01-Mar			
262	Negative	Negative	Negative	Negative	Positive	Negative	Negative	Negative	28-Feb	01-Mar			
271	NT	NT	NT	NT	NT	NT	NT	NT	07-Mar	07-Mar			Late delivery of samples. Poor cell viability
276	Positive	Negative	Negative	Negative	Positive	Negative	Equivocal	Equivocal	01-Mar	06-Mar	No results returned		
293	Positive	Negative	Negative	Negative	Positive	Negative	Negative	Negative	01-Mar	01-Mar			
297	Positive	Negative	Negative	Negative	Positive	Negative	Negative	Negative	28-Feb	28-Feb			
341	NT	NT	NT	NT	NT	NT	NT	NT	03-Mar	03-Mar			
351	Positive	Negative	Negative	Negative	Positive	Negative	Negative	Negative	03-Mar	03-Mar	No results returned		
392	NT	NT	NT	NT	NT	NT	NT	NT			No results returned		

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Lab No.	Serum 1 cytometer reading	Serum 2 cytometer reading	Serum 3 cytometer reading	Serum 4 cytometer reading	Negative control (local)	Positive control (local)	Strong positive (local)	Weak positive (local)	Positive result value	Cytometer reading units	Viability (%)
112	-	-	-	-	-	-	-	-		Median log channel	0
115	417	221	219	307	274	359			>40 linear channel shift	Median linear channel shift	
117	8.17	5.43	5.99	5.99	5.38	81.19			Ratio (RMF) >1.3	Median log channel	95
118	258	193	198	204	181	798			247 (181+66)	Median linear channel	90
119	0.398	0.143	0.162	0.227	0.15	5.4			ratio Pos >1.285 B-line 1.285-1.45	Mnlx	65
120	3.95	1.1	1.15	1.59	46	3139.5			Ratio >1.6	Median	100
122	51	11	19.5	25	10		97	29	3SD	Geomean linear value	98
130	220	140	138	180	135	473			40	Mean channel shift	100
133	1.2	0.2	0.2	0.4	0.1	121.4			2SD	MFI	99
138	0.2	0.02	0.04	0.13	0	0.85			>0.20	D Value Kolmogorov-Smirnov Statistic	
139	2.83	0.26	0.27	0.59	0.3	34			>1.5 local neg control	MFI	80
143	-	-	-	-	-	-				Mean channel shift	78
144	1.78	0.78	1.01	1.11	746	6.07			1.6	Median/Ratio	
145	0.789	0.288	0.336	0.436	0.388	53.1			2SD of the ratio	Median log channel	90
147	258	123	122	179	120	632			>40 linear channel shift	Linear channel	100
149	0.816	0.273	0.302	0.334	0.364	134			2SD	Median log channel	
154	162	66	56	90	57	2300			Median >150% of negative	MFI	
157	168	141	136	153	134	1679			2SD (cut off 162)	Median log channel	98
159	159	5	4	55	131	507			40	Mean fluorescence	95
160	39.2	7.8	8.2	12.8	8.2	407			>16 (Neg +2SD)	Mean linear channel	
163	25.1	1.2	1.5	4.7	1	14.7			2.3 (ratio above)	Geomean linear channel	94
167	753	135	136	231	142	8328			2SD	Median log channel	98
169											
176	0.56	0.02	0	0.31	0	1.06			0.4	MFI Shift	
189	14.08	1.08	2.13	0.9	1.67	95.09			>5%	%	90
190	-	-	-	-	-	-			-	-	
191	192	1.9	14	102	0	394			>30	MFI	95
193	38.18	4.99	5.18	12.23	6	126.64			2.4x local neg control	Ratio	
194	1.27	0.343	0.33	0.656	0.301	15.6			>1.2		
195	320	226	231	265	267	442			Test/Neg control ≥1.3	Median log channel	80
201	0.938	0.409	0.508	0.634	0.406	21.6			S/NK ≥2.0	x-mean	93
209	1773	178	184	426	162	969				MFI	
218	10.9	1.1	1.1	2.6	6				Ratio >1.6	Ratio	96
218	145	63.7	58.8	61.9	60.9	3778			1.2x geometric mean MFI	Geometric mean MFI	
220	32845	1902	3063	9735	1514	261540			6000 above the mean of the neg control	Linear acquisition	90
235	1.29	1	1.21	2.68	1	144.3			>2 neg control median log channel	Median log channel	85
238	-	-	-	-	1842	9947			MESF serum/MESF Neg control	MESF	
240	43	17	17	31	17	370			1.2x Neg control	MFI	50
246	2.4	1.1	1.05	1.23		3.74			1.75	MFI	87
252	1.03	1.04	1.01	1.32	165	1546			Median ratio ±2SD		70
260	51.33%	9.48%	9.18%	11.34%	5.52%	97.62%			>20% shift	% shift	
262	805	705	723	963	609	18900			2SD	Median channel shift	70
271	-	-	-	-	-	-			-	-	
276	614	127	136	190	214	15615			>1.25x Neg control	MFI	91
293	8.98	.65	3.89	5.42	3.52	103.6			10 channel shift	Channel shift	80
297	186	79	68	78	101	281			1.8x T Neg	MFI	
341											
351	237	136	135	160	126	11402			500	MFI	98
392											

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Lab No.	Serum 1 cytometer reading	Serum 2 cytometer reading	Serum 3 cytometer reading	Serum 4 cytometer reading	Negative control (local)	Positive control (local)	Strong positive (local)	Weak positive (local)	Positive result value	Cytometer reading units	Viability (%)
112	-	-	-	-	-	-	-	-		Median log channel	0
115	705	483	500	473	577	784			>60 linear channel shift	Median linear channel shift	
117	60.16	11.02	13.76	14.89	14.25	270.52			Ratio (RMF) >1.5	Median log channel	95
118	277	259	256	264	136	519			161.5 (135+25.5)	Median linear channel	90
119	19.2	1.19	1.91	2.64	1.31	8.6			ratio Pos >1.7	MnIx	65
									B-line 1.7-2.3		
120	3.76	1.06	1.31	1.28	498.5	6819			Ratio >2	Median	100
122	682	171.5	208	198.5	155		437	192	3SD	Geomean linear value	98
130	450	232	280	305	220	445			80-100	Mean channel shift	100
133	16.7	4.3	4.5	3	4.2	228.9			2SD	MFI	99
139	52.6	3.81	4.68	4.77	7.54	96			>2 local neg control	MFI	80
143	-	-	-	-	-	-				Mean channel shift	78
144	4.93	1.17	1.46	1.48	3099	3.69			2.6	Median/Ratio	
145	3.18	0.848	0.698	0.747	0.803	55.1			2SD of the ratio	Median log channel	90
147	464	245	254	341	302	669			>60 linear channel shift	Linear channel	100
149	24.55	3.62	2.05	4.13	3.3	194			2SD	Median log channel	
154	2134	483	311	267	408	3662			Median >200% of negative	MFI	
157	211	121	120	127	126	2073			2SD (cut off 162)	Median log channel	98
159	246	30	32	29	287	655			100	Mean fluorescence	95
160	494	151	140	119	80.3	933			>204 (Neg +2SD)	Mean linear channel	
163	6.8	1	1	1.4	1	2.2			1.7 (ratio above)	Geomean linear channel	94
167	4173	958	813	1552	1219	18535			2SD	Median log channel	98
169											
176	0.75	-0.29	-0.02	0.02	0	0.7			0.22	MFI Shift	
189	47.28	5.78	3.73	3.79	2.71	99.9			>8%	%	90
190	-	-	-	-	-	-			-	-	
191	247	32.7	75	94	0	402			>100	MFI	95
193	338.29	66.28	68.84	83.57	75.16	269.47			2.3x local neg control	Ratio	
194	17.9	9.78	5.28	6.17	3.45	98.8			>4		
195	645	238	243	277	290	1784			Test/Neg control ≥1.6	Median log channel	80
201	8.7	1.8	2.79	3.07	2.28	39.6			S/NK ≥2.5	x-mean	93
209	14820	2767	2727	3644	2764	5301				MFI	
	5.4	1	1	1.3					Ratio >1.7	Ratio	96
218	1166	500	615	417	740	6088			1.7x geometric mean MFI	Geometric mean MFI	
220	103638	4491	5764	11107	2740	261770			6000 above the mean of the neg control	Linear acquisition	90
235	88.17	7.99	14.33	12.3	6.79	1647.39			>12 neg control median log channel	Median log channel	85
238	-	-	-	-	2962	14880			MESF serum/MESF Neg control	MESF	
240	1620	1550	1100	1260	870	2205			1.4x Neg control	MFI	50
246	5.23	1.42	1.03	1.26	1.26	19.67			2.5	MFI	87
252	2.47	7.07	1.07	1.46	180	2763			Median ratio ±2SD		70
260	69.19%	17.30%	12.42%	8.95%	11.21%	96.59%			>20% shift	% shift	
262	9365	1690	1878	2450	1427	41297			2SD	Median channel shift	70
271	-	-	-	-	-	-			-	-	
276	6700	862	1242	993	728	17401			>1.25x Neg control	MFI	91
293	168.4	23.8	25	26.4	18.7	174			20 channel shift	Channel shift	80
297	990	82	68	69	105	288			2x T Neg	MFI	
341											
351	2468	465	499	496	480	13442			2500	MFI	98
392											