

PBL/T-CELL AND B-CELL CROSSMATCHING METHOD OF SAMPLE 2A05+2A06/2017

UK NEQAS for H&I Scheme 2A - Cytotoxic Crossmatching

DESPATCHED ON 23rd MAY 2017

Lab No.	Cells used			Immunobeaded cells used?		Complement Source	DTT addition		DTT Concentration	Volumes				Incubation Times				Visualisation of dead cells	Modifications to the standard NIH CDCXM method	Comments		
	PBL	T-cells	B-cells	T-cells	B-cells		Sera	Cells		DTT	Sera	Cells	Comp	DTT	B-cell	Pre Comp T-cell	B-cell				Post Comp T-cell	B-cell
9	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes	0.1M	5	95	1	5	30	30	30	30	30	Fluoroquench				
11	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes	0.05M	1	1	1	5	30	30	45	45	90	Fluoroquench				
12	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes	0.01M	1	1	1	5	30	30	30	30	90	EB/AO				
14	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes	10%	0.1	0.9	1	5	10	10	45	45	75	Fluoroquench				
15	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes	0.02M	1	2	1	5	30	30	60	60	60	Fluoroquench				
20	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes	0.01M	1	1	1	5	30	30	30	30	60	EB/AO				
23	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes		1	1	1	5		40	40	40	40	EB/AO				
24	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes	0.005M	4:36	1	1	5	30	30	45	45	90	Fluoroquench				
25	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes	1:10	1	1	1	5	30	30	30	30	45	Fluoroquench				
28	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes	0.01M	1	1	1	5	30	30	30	30	45	EB/AO				
34	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes	0.01M	1	1	1	5	30	30	30	30	90	EB/AO				
35	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes	0.1M	10	70		5	10		45	60	90	Fluoroquench				
38	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes	0.01M	1	1	1	5	60	60	60	60	60	EB/AO				
39	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes	0.1M	0.1	1	1	5	10	10	45	45	90	Fluoroquench				
41	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes	0.1M	1	1	1	5	30	30	45	45	45	EB/AO				
42	Yes	Yes	Yes	Yes	Yes	TSC Biosciences	Yes	12mg/ml	1	1	1	5	30	30	60	60	120	Fluoroquench				
45	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes	0.005M	1	1	1	5	30	30	60	30	90	EB/AO				
51	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes		1	1	1	5	0	0	60	60	60	Fluoroquench				
54	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes		1	1	1	5			60	60	60	PI/AO				
58	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes		1	2	1	5	45	45	60	60	90	Fluoroquench				
62	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes											EB/AO	One hour incubation with cells, two hours with complement			
101	Yes	Yes	Yes	Yes	Yes	BAG	Yes	0.05M					45	45				Fluoroquench				
112	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes	1M	0.1	0.9	1	5	30		60		120	Stain Fix				
114	Yes	Yes	Yes	Yes	Yes	One Lambda	Yes	0.05M	0.1	1	1	5	30	30	30	60	30	60	Fluoroquench			
116	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes	0.05		1-5	1	2-4	30	30	20	20	30	30	EB/AO	AMOS modification	DTT treatment of the sera is done in a separate tube 4µl DTT and 36µl sera. Cells extracted with Rosettesep	
117	Yes	Yes	Yes	Yes	Yes	Life Technology	Yes								60		120	Eosin, Fluoroquench				
119	Yes	Yes	Yes	Yes	Yes	Biorad	Yes		1	1	1	5	30		30		60	Eosin				
120	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes	0.005M	1	1	1	6		30	30	60	60	Fluoroquench		Sera treatment with DTT prior to CDC incubation: 2µl DTT 0.1M + 38µl serum - incubation 30mn 37c		
128	Yes	Yes	Yes	Yes	Yes	One Lambda	Yes		1	1	1	5		45		90		Eosin				
133	Yes	Yes	Yes	Yes	Yes	Innotrain	Yes	0.01M	1	1	1	5	90	90	30	30	60	60	Fluoroquench		We resuspend the cell pellet with DTT in PBS (0.01M) and use 1 microliter of cell suspension per well	
136	Yes	Yes	Yes	Yes	Yes	In-house	Yes		1	1	1	5		60		60		EB/AO				
139	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes	0.05M	5	45	1	5	20	20	30	30	60	60	Fluoroquench	Washes		
143	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes	1:10	1	1	2	5	45		30		60		Eosin			
145	Yes	Yes	Yes	Yes	Yes	Invitrogen	Yes								45	45	45	45	EB/AO			
147	Yes	Yes	Yes	Yes	Yes	In-house	Yes	0.005M	1	19			30	30	30	30	60	60	Fluoroquench			
149	Yes	Yes	Yes	Yes	Yes	Commercial	Yes		0.5	0.5	1	5		60		60		Eosin				
154	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes							30	30	60	60	60	Eosin			
157	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes	0.005M	1	1	1	5		60	60	120	120	Fluoroquench				
159	Yes	Yes	Yes	Yes	Yes	In-House	Yes	0.05M	10	90	1	5	45	45	30	30	60	60	Fluoroquench	AHG incubation during 3 minutes		
162	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes	0.01M	10	90	1	5	45	45	60	60	60	60	Fluoroquench			
163	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes	0.1M	1	1	1	5	30	30	30	30	60	60	Fluoroquench			
169	Yes	Yes	Yes	Yes	Yes	One Lambda	Yes	50mM	0.1	1	1	5		30	30	30	60	60	Fluoroquench			
181	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes	0.005M	1	1	1	5		30	30	30	45	45	Fluoroquench			
186	Yes	Yes	Yes	Yes	Yes	Invitrogen	Yes	5mM	1	19	1	6	30	30	30	30	60	60	Fluoroquench			
189	Yes	Yes	Yes	Yes	Yes	Innotrain	Yes		2	2	2	5	30	30	60	60	30	30	EB/AO			
190	Yes	Yes	Yes	Yes	Yes	Servbio	Yes		1	19	1	5	30	30	30	60	60	60	Fluoroquench			
193	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes	0.1mg/l	0.05	0.95	1	5	30	30	30	30	60	60	Stain Fix			
194	Yes	Yes	Yes	Yes	Yes	In-House	Yes	5%	1	1	1	6	15	15	30	30	45	45	Fluoroquench			
195	Yes	Yes	Yes	Yes	Yes	Invitrogen	Yes	0.1M	2	1,2	1	5	15	15	30	30	60	60	Fluoroquench			
204	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes		1/20	1	1	5	15	15	45	45	90	90	Fluoroquench			
205	Yes	Yes	Yes	Yes	Yes	Innotrain	Yes		25	75								30	60	Fluoroquench		
206	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes		0.5	0.5	1	3.3		30	30	45	45	Fluoroquench				
209	Yes	Yes	Yes	Yes	Yes	One Lambda, Ingen	Yes	0.0015M	1	2	1	5	10	10	30	30	60	60	Fluoroquench	CDC with AGH on T-lymphocytes during 2 minutes		
212	Yes	Yes	Yes	Yes	Yes	Innotrain	Yes		10	90	1	5		30		60		PI/AO				
216	Yes	Yes	Yes	Yes	Yes	Innotrain	Yes							45	45	60	60	60	EB/AO			
223	Yes	Yes	Yes	Yes	Yes	Immucor	Yes	0.5M	0.05	0.95	1	6		30	30	60	60	60	Fluoroquench	15mn incubation of serum with DTT at 37c before cell/serum deposite		
229	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes	1/9	0.3	2.7	1	5		30	30	60	60	60	Fluoroquench			
232	Yes	Yes	Yes	Yes	Yes	Biotest	Yes			0.5	0.5	2.5		45		60		EB/AO				
235	Yes	Yes	Yes	Yes	Yes	Biorad	Yes	0.001M	1	1	1	5	30		30		60		Eosin			
238	Yes	Yes	Yes	Yes	Yes	Invitrogen	Yes	1/20	2	38		5	30	30	30	45	60	90	Fluoroquench			
239	Yes	Yes	Yes	Yes	Yes	Innotrain	Yes		5	1	1	5		30	60	60	120	Fluoroquench				
245	Yes	Yes	Yes	Yes	Yes	BAG	Yes	0.1M%	5	95	1,2	5	30	30	30	30	60	45	EB/AO			
252	Yes	Yes	Yes	Yes	Yes	Innotrain	Yes		0.1	1	1	5	30	30			60	60	Fluoroquench			
259	Yes	Yes	Yes	Yes	Yes	Biorad	Yes			1	1	5		30	30	30	60	60	PI/AO			
260	Yes	Yes	Yes	Yes	Yes	Innotrain	Yes		1	1	1	5	30	30			60	60	Fluoroquench			
262	Yes	Yes	Yes	Yes	Yes	Life Technologies	Yes		1/2	1	1	5		30	60	60	90	60	Eosin			
268	Yes	Yes	Yes	Yes	Yes	Gentrack	Yes	1/10	3	27	1	5		30	30	60	90	60	Fluoroquench	XM LCT with AHG on T-cells	T-cells tested with and without AHG	
284	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes	0.1M/L	1	19	1	5	35	35	40	40	60	60	EB/AO			
292	Yes	Yes	Yes	Yes	Yes	One Lambda	Yes	0.015M	1	1	1	3	15	15	30	30	60	60	Fluoroquench			
293	Yes	Yes	Yes	Yes	Yes	Invitrogen	Yes	0.05M	50	450			60	60	60	60	120	120	Eosin			
294	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes	0.1Mol	1	19	1	3	15	15	30	30	30	30	Fluoroquench			
297	Yes	Yes	Yes	Yes	Yes	Servbio	Yes	0.001Mol/ml	1	1	1	6	30	30	30	30	60	60	Fluoroquench			
311	Yes	Yes	Yes	Yes	Yes	Servbio	Yes	0.1M	5	1	1	5	30	30	30	30	60	60	Fluoroquench			
315	Yes	Yes	Yes	Yes	Yes	Servbio	Yes	1%	4	76	1	5	15	15	30	30	50	50	Fluoroquench			
321	Yes	Yes	Yes	Yes	Yes	Cedarlane	Yes	0.1M	2	38	1	7		30	30	60	60	60	Fluoroquench			

EB - ethidium bromide
AO - acridine orange
PI - propidium iodide
Hb - haemoglobin
CFDA - carboxy-fluorescein diacetate