

June 7th, 2023

2023_ILT_07

Specimen	Status	Location	Conc	Date	Notes	Volume	Lym	Lym+Mon	Total
950c Inf 759-1 a-1	HU T164 ♂	Box 22AA1 T164 (6)	? <24.5>			1	3.47	5.60	
1080c Inf 759-1 a-2	HU T165 ♂	(8)				1	3.23	4.99	
1170c Inf 185-4 a-3	HU S9X7 ♀	Box 6A64 S9X7 (4)	~SM <13.6>		Fibrous?	1	7.24	12.50	
1100c Inf 185-4 a-4	HU S9X2 ♀	(10)	<20.4>			1	4.56	8.21	
1090c Inf 229-3 a-5	HEU-10 SFE ♂	Box 6BA7 (5)	~8M <16.6>			1	5.59	11.30	
1000c Inf 229-3 a-6	HEU-10 SFE ♂	(4)	<16.6>			1	5.45	11.30 nice!	
1270c Inf 587-0 a-1	HEU-10 T668 ♀	Box 6A15 (3)	~17M <9.2>		Very Very bloody room	2	9.89	13.60	
1030c Inf 759 a-3	HU ♂ T166	(7)	<28.7>			1	3.08	4.81	
730c ND050 40p	Adult ♂	(2)	~12M <11.2> [15]	1/13/23		1	9.13	12.60	
1070c ND006 40p	Adult ♀	(1)	~17M <7.3> [15]	5/12/23		1	13.40	16.10	

Adult @ 7:15 am 7:29 spin DWXst 1235 45-44 7:53

cord @ 7:31 am 7:42 pm S6-B100

appears enough @ 1st viral?

Stain for 1st count @ 8:14 am → 8:21 am

Cord 2nd @ 8:45 am spin @ 8:56 pm 9:11 DWXst 1235 45-44 7:53

9:23 stain for 2nd count → 9:30 am

2nd count @ 9:38 am

Alyquot start @ 10:07 am

11:00 am low Buggy block?

Incubation start @ 11:17 am → 5:17 pm

4:21 pm reagent prep → 4:35 pm

4:35 pm Ab prep → 5:09 pm

5:29 sample spin

WPC 5:46 pm / biot spin

8 spin @ 5:51 pm

SC W/P 6:08 pm → spin 6:21

6:19 hot sets → 6:49 spin @ 6:44

6:26 hot samples → 6:56 pm 7:02 spin

6:37 cold sets → 7:08 pm

<6:41 lbs ppgal>

$$\begin{array}{r} 000 \\ 000 \\ \hline 0 \end{array}$$

000

00

000

00

000

00

000

00

000

00

Inf 587 given to Culture

$$\frac{100,000 \text{ events}}{1,000 \text{ events}} = 100$$

$$\frac{1,000 \text{ events}}{X \text{ pl}} = \text{events/pl}$$

$$\begin{aligned} \times 1000 &= \text{events/ml} \\ \times 100 &= \text{events/dil} \\ \times 100 &= \text{events/dil} \end{aligned}$$

Vortexed 7:14 pm

Tcts @ 7:18 → 7:58 pm

Abs @ 7:28

spin @ 8:21 pm

7:21 pm SC's coffee break started

7:53 pm SC FixPerm → 8:03 → 8:13

8:15 cold samples → 8:45 pm

1st wash @ 8:00

2nd wash → started @ 8:44 pm

8:48 pm RBC lysis

9:04 Intra single colors (+ control 27 min)

Samples FixPerm 9:11 → 21 → 31

1st spin @ 9:35 pm

wash @ 9:48 pm

Stash two leftovers 8

10:01 pm Samples intracellular \rightarrow 10:41 pm

SCs & unstaineds in 20 μ l @ 10:03 pm

Final spin @ 10:43 am

Done @ 10:54 pm

SCs @ 11:57 am

done vials @ 12:10 ✓

done vials @ 12:27 ✓

B's @ 12:41 ✓

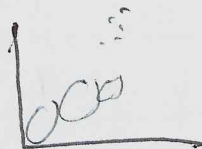
R's 12:44 \rightarrow

SCs @ 12:59 ✓

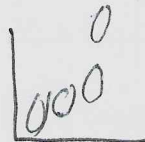
Unstaineds @ 1:03

only samples left 1:32

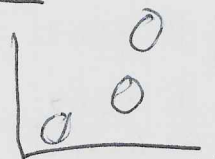
Done @ 2:29 pm



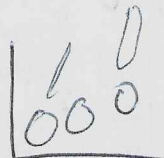
Inf 759
(not great shape)



Inf 185 ✓



Inf 229 ✓



Inf 587



~~Inf 580~~



ND 050

$$7 + 2 = 10$$

a
a

June 7th, 2023

2023_ILT_07

Sample	Total	Volume	Concentration	3M	2.75M	2.5M	2.25M	2.0M	1.75M	1.5M	1.25M	1.0M	0.75M	0.5M
INF759	9.78	3	3.26	0.92	0.84	0.77	0.69	0.61	0.54	0.46	0.38	0.31	0.23	0.15
INF185	11.8	2	5.90	0.51	0.47	0.42	0.38	0.34	0.30	0.25	0.21	0.17	0.13	0.08
INF229	11.04	2	5.52	0.54	0.50	0.45	0.41	0.36	0.32	0.27	0.23	0.18	0.14	0.09
INF587	19.78	2	9.89	0.30	0.28	0.25	0.23	0.20	0.18	0.15	0.13	0.10	0.08	0.05
ND050	9.13	1	9.13	0.33	0.30	0.27	0.25	0.22	0.19	0.16	0.14	0.11	0.08	0.05
ND006	13.4	1	13.40	0.22	0.21	0.19	0.17	0.15	0.13	0.11	0.09	0.07	0.06	0.04

	Sample	3M	2.75M	2.5M	2.25M	2.0M	1.75M	1.5M	1.25M	1.0M	0.75M	0.5M
R10	INF759	0.08	0.072	0.066	0.06	0.053	0.046	0.04	0.033	0.026	0.02	0.014
	INF185	0.49	0.450	0.409	0.37	0.327	0.286	0.25	0.204	0.164	0.12	0.082
	INF229	0.46	0.418	0.380	0.34	0.304	0.266	0.23	0.190	0.152	0.11	0.076
	INF587	0.70	0.638	0.580	0.52	0.464	0.406	0.35	0.290	0.232	0.17	0.116
	ND050	0.67	0.615	0.559	0.50	0.447	0.391	0.34	0.279	0.223	0.17	0.112
	ND006	0.78	0.711	0.646	0.58	0.517	0.452	0.39	0.323	0.258	0.19	0.130

	Sample	3M	2.75M	2.5M	2.25M	2.0M	1.75M	1.5M	1.25M	1.0M	0.75M	0.5M
PMA	INF759	2	1.83	1.66	1.5	1.32	1.16	1	0.83	0.66	0.5	0.33
	INF185	2	1.83	1.66	1.5	1.32	1.16	1	0.83	0.66	0.5	0.33
	INF229	2	1.83	1.66	1.5	1.32	1.16	1	0.83	0.66	0.5	0.33
	INF587	2	1.83	1.66	1.5	1.32	1.16	1	0.83	0.66	0.5	0.33
	NDO50	2	1.83	1.66	1.5	1.32	1.16	1	0.83	0.66	0.5	0.33
	NDO06	2	1.83	1.66	1.5	1.32	1.16	1	0.83	0.66	0.5	0.33

Sample	3M	2.75M	2.5M	2.25M	2.0M	1.75M	1.5M	Volume	Lym	Total	Average
CD107a	INF759	6	5.5	5	4.5	4	3.5	3			
	INF185	6	5.5	5	4.5	4	3.5	3	2	9.89	19.78
	INF229	6	5.5	5	4.5	4	3.5	3	1	5.45	12.62
	INF587	6	5.5	5	4.5	4	3.5	3			
	ND050	6	5.5	5	4.5	4	3.5	3			
	ND006	6	5.5	5	4.5	4	3.5	3			

#	Filter	Single color (ul)	Ref ctrl	Unmixing ctrl name	Fluorochrome	Marker	Clone	Vial lot #	During stim!!!	16	U/D 15 min (81)	Tetramer 40 min @ RT	HostStain 30min @ 37C	16	ColoStain 30min @ 40C	16	RBC Lysis then FcyPerm	Spiked 40 min @ RT	16
1	UV2				BUV355	CD62L	SK11								1.2	19.2			
2	UV7				AF	AF-LUV6													
3	UV9				BUV495	CD8	RPA18								0.7	11.2			
4	UV10				BUV563	CD69	PN50								0.5	8.0		1	16.0
5	UV11				BUV651	CD4	161						2.0	32	0.7	11.2		0.1	1.6
6	UV4				BUV737	CD3	86								1.3	20.8			
7	UV16				BUV805	CD4	5K3												
8	V1				BUV821	CD127	AD1005						1.5	24	2.0	32.0		0.5	8.0
9	V1				Pacific Blue	CD14	M552						1.5	24	2.0	32.0			
10	V5				BUV460	CD19	5D5C1								2.0	32.0			
11	V7				BUV510	CD45RA	HP 36310						2	32	0.7	11.2			
12	V10				BUV605	CD56	5.1H11												
13	V11				BUV650	CD7	GD48U7						1.0	16			0.1	1.6	
14	V13				BUV711	CD7	M1701						1	16			0.7	11.2	
15	V14				BUV750	IFN γ	B27						1	16					
16	V15				BUV786	CD46	11A9						1.5	24				1.5	24.0
17	V2				HTC/AF488	VA24/CD1d	6B11												
18	V2				Spark blue 550	CD3	5K7												
19	V2				PerCP-Cy5.5	CD28	BAS6												
20	V4				PE	NKGD2	1011											0.1	1.6
21	B6				PE-Dazzle484	TRAc	MA411						1.5	24			2.5	40.0	
22	B8				PE-Cy5	CD25	MA231						1.2	19.2			0.5	8.0	
23	B13				PE-4670	PD1	PD13.13										0.5	8.0	
24	B1				APC	CD16	3G8										1.5	24.0	
25	B2				Abcaefluor647	VA24/CD1d	3C10										0.7	11.2	
26	B4				APC-R700	CD107a	HA43											0.5	8.0
27	B6				Zombie NIR	U/D	N/A			96									
28	V2				APC/Fire 750	CD27	0323												
29	B6				APC/Fire 810	CD38	HT2												
And UNSTAINED CONTROLS!!!																			
R10 Media										6.0	96								
Pipette draw volume / sample										14.5	232								
Antibody Total										19.5									
Brilliant Stain																			
Pipette draw volume / sample																			
Antibody Total										17.8	285	12.5	200.0					9.5	152
Brilliant Stain										50	800	50.0	800					11	176
Pipette draw volume / sample										65								19.5	

VA Min				10
HTC	VA211.8	1.5		15
AF47	VA7	1.2		12
Pipette draw volume/sample	PBS	17.8		178
		19.5		

Zombie NIR		18		15	PBS
0.8		U/D		5/10	6 Zombie

Number Samples	Total	FBS	RBC Lysate	Fix	Perm	PFA
Number Unstained	16	128	4.8	4.8		0.48
Number Surface Xcys (29)	10	40	3	2	20	0.48
Number Intracellular Xcys	29	29	0	5.8	58	0.58
Number Intracellular Xcys	6	6	0	1.2	24	0.12
Total	203	203	7.8	13.8	166	1.48
		182.7				149.4

Tetramer Control Mix				1
AF488	HTC/1d Unstained	0.5		0.4
AF647	HTC/1d Fcy	2		2.2

Tet+PBS	10	20	30
Tet+PBS	1.9	2.18	3.27
Tet+PBS	1.9	2.18	3.27

FBS	101.5
PBS	101.5
PFA	0.148
PBS	1.332

Perm	16.6
Water	139
RBC	0.78
Water	7.02

Simplified Protocol

Thaw cells, DNase count.

Collect, count, aliquot cells 2.5 DE6 cells R10 (final polybrene tube).
Bring volume up to "x" mL R10, add "y" mL PMACuI and "z" mL CD107a.
Cap and incubate at 37°C for 8 hours.

Wash with 2 mL PBS, spin down 1300 rpm 8 min.
800 uL of Livehead mix (1:2500) @RT for 15 min.
Wash 2 mL 5% PBS-FBS, spin 1300 rpm, 8 min.
Add HostStain mix, incubate @37°C for 30 min.
Wash 2 mL 5% PBS-FBS 1400 rpm, 8 min.

Add Tetramers, incubate @RT for 10 min.
Wash 2 mL 5% PBS-FBS 1400 rpm, 8 min.
Add GoldStain mix, incubate @4°C for 30 min.
Add 300-500 uL 1x RBC Lysis for 3 minutes.
Wash 2 mL 5% PBS-FBS 1400 rpm, 8 min.

300 uL BD FcyPerm, incubate @4°C for 20 min.
(vortex every 10 minutes)

First PermWash: 1 mL PermWash 1500 rpm 6 min
Second PermWash: 1 mL PermWash 1500 rpm 6 min
Add Intracellular Stain, incubate @RT for 45 min.
First PermWash: 2 mL PermWash 1500 rpm 6 min
Resuspend in 70 uL 0.4% PFA-PBS
Cap tubes, wrap rack in foil, store at 4°C

[illegible][illegible]

June 7th, 2023

2023_ILT_07

June 7th, 2023

2023_ILT_07

June 7th, 2023

2023_ILT_07

