

Centers for Disease Control and Prevention
Model Performance Evaluation Program

T-Lymphocyte Immunophenotyping
(TLI)

**Figures and Table Used for the Analysis
of Participant Laboratory Results
for the September/October 1998 Shipment**

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**Use of trade names is for identification only and does not constitute endorsement
by the U.S. Department of Health and Human Services.**

Figures and Table Used for the Analysis of the
September/October 1998 Specimen Shipment

Results Submitted by Laboratories Participating in the Model Performance
Evaluation Program for T-Lymphocyte Immunophenotyping

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**Centers for Disease Control and Prevention (CDC) - Model Performance Evaluation Program
for T-Lymphocyte Immunophenotyping (TLI)**

Donor Specimen Identification for September 22, 1998 TLI Shipment Specimens

Panel Letter	Participant Lab Vial Label	CDC Donor Number	Donor Information (HIV-1^a status)
A	A1	07	HIV-1 Antibody-Positive
	A2	10	HIV-1 Antibody-Negative
	A3, A5	01	HIV-1 Antibody-Positive
	A4	11	HIV-1 Antibody-Negative
B	B1, B4	02	HIV-1 Antibody-Positive
	B2	08	HIV-1 Antibody-Positive
	B3	11	HIV-1 Antibody-Negative
	B5	12	HIV-1 Antibody-Negative
C	C1	12	HIV-1 Antibody-Negative
	C2, C3	03	HIV-1 Antibody-Positive
	C4	10	HIV-1 Antibody-Negative
	C5	09	HIV-1 Antibody-Positive
D	D1, D3	04	HIV-1 Antibody-Positive
	D2	11	HIV-1 Antibody-Negative
	D4	07	HIV-1 Antibody-Positive
	D5	10	HIV-1 Antibody-Negative
E	E1	08	HIV-1 Antibody-Positive
	E2, E4	05	HIV-1 Antibody-Positive
	E3	12	HIV-1 Antibody-Negative
	E5	11	HIV-1 Antibody-Negative
F	F1, F5	06	HIV-1 Antibody-Positive
	F2	09	HIV-1 Antibody-Positive
	F3	10	HIV-1 Antibody-Negative
	F4	12	HIV-1 Antibody-Negative

^a Human immunodeficiency virus type 1

**Centers for Disease Control and Prevention (CDC) - Model Performance Evaluation Program
for T-Lymphocyte Immunophenotyping (TLI)**

Donor Specimen Identification for October 6, 1998 TLI Shipment Specimens

Panel Letter	Participant Lab Vial Label	CDC Donor Number	Donor Information (HIV-1^a status)
G	G1, G5	13	HIV-1 Antibody-Positive
	G2	19	HIV-1 Antibody-Positive
	G3	22	HIV-1 Antibody-Negative
	G4	23	HIV-1 Antibody-Negative
H	H1	20	HIV-1 Antibody-Positive
	H2	23	HIV-1 Antibody-Negative
	H3, H4	14	HIV-1 Antibody-Positive
	H5	24	HIV-1 Antibody-Negative
I	I1, I2	15	HIV-1 Antibody-Positive
	I3	24	HIV-1 Antibody-Negative
	I4	22	HIV-1 Antibody-Negative
	I5	21	HIV-1 Antibody-Positive
J	J1	22	HIV-1 Antibody-Negative
	J2, J4	16	HIV-1 Antibody-Positive
	J3	19	HIV-1 Antibody-Positive
	J5	23	HIV-1 Antibody-Negative
K	K1	23	HIV-1 Antibody-Negative
	K2	24	HIV-1 Antibody-Negative
	K3	20	HIV-1 Antibody-Positive
	K4, K5	17	HIV-1 Antibody-Positive
L	L1	24	HIV-1 Antibody-Negative
	L2, L3	18	HIV-1 Antibody-Positive
	L4	21	HIV-1 Antibody-Positive
	L5	22	HIV-1 Antibody-Negative

^a Human immunodeficiency virus type 1

Figure 1. Primary classification of laboratories participating in the September/October 1998 shipment.

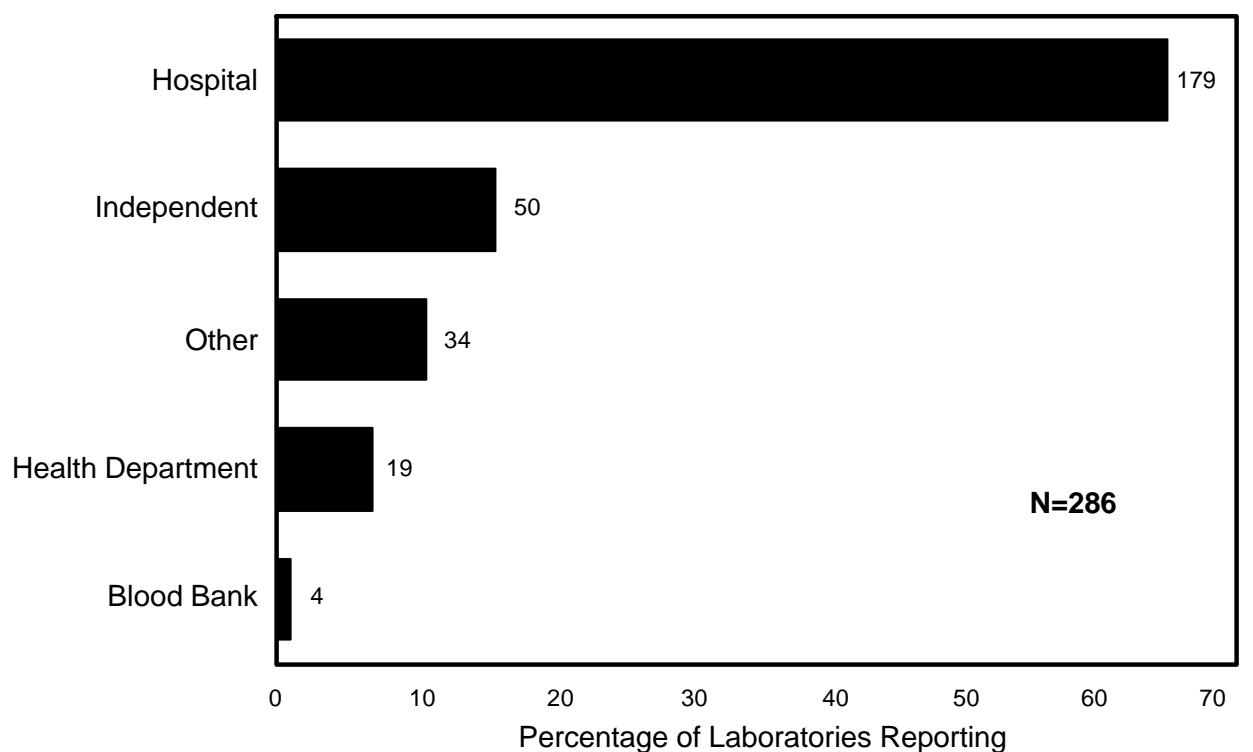
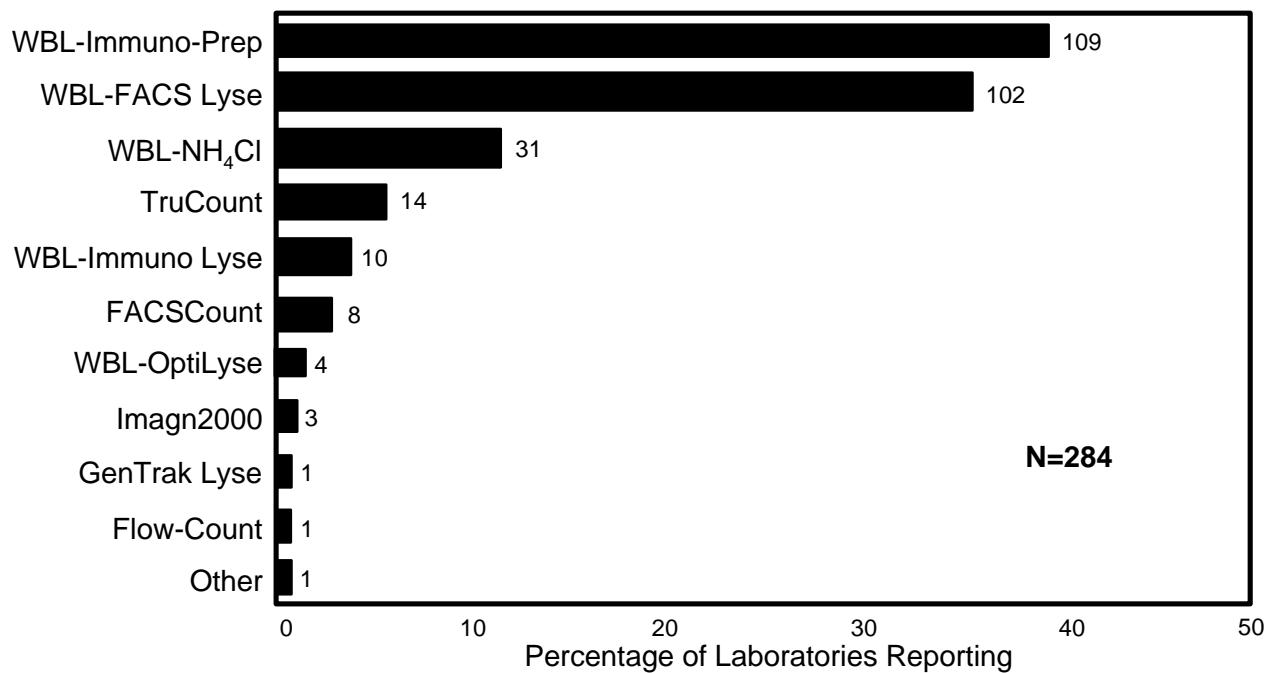


Figure 2. Methods used to prepare specimens for T-lymphocyte immunophenotyping, reported by participant laboratories to CDC for the September/October 1998 shipment.



WBL - Whole Blood Lysis

NH₄Cl - Ammonium Chloride

Figure 3. Methods used to fix specimens for T-lymphocyte immunophenotyping, reported by participant laboratories to CDC for the September/October 1998 shipment.

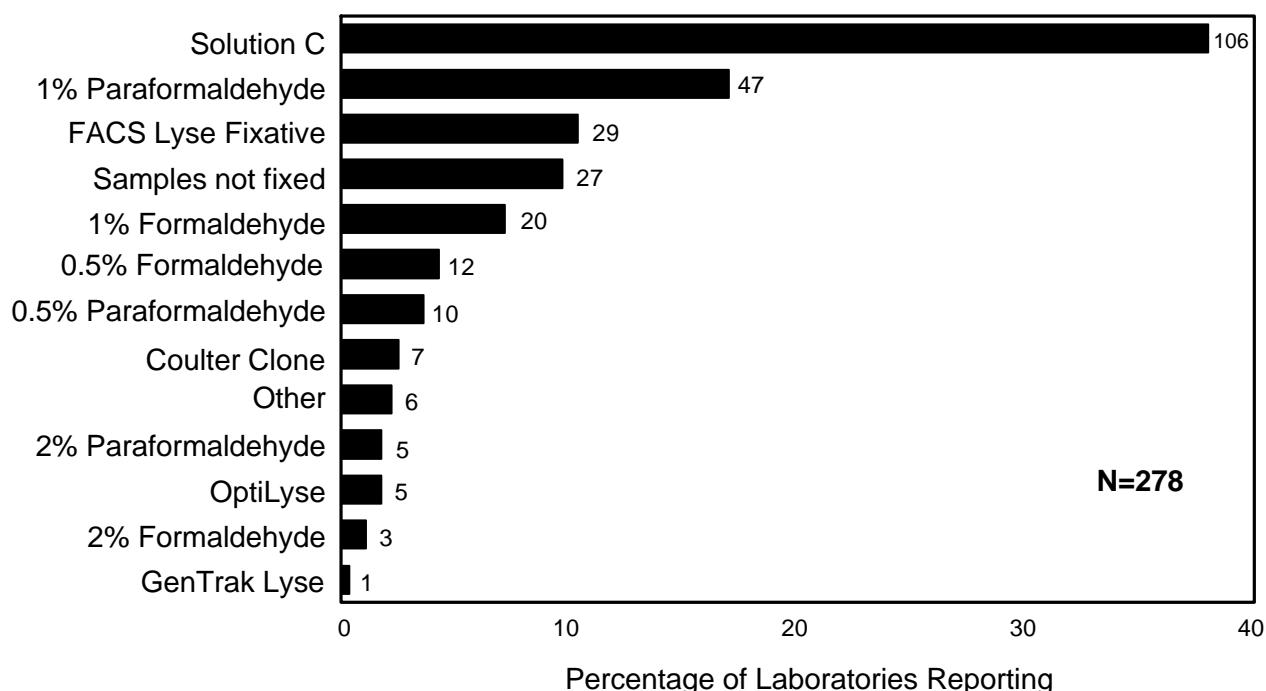


Figure 4. Types of flow cytometers used for T-lymphocyte immunophenotyping, reported by participant laboratories to CDC for the September/October 1998 shipment.

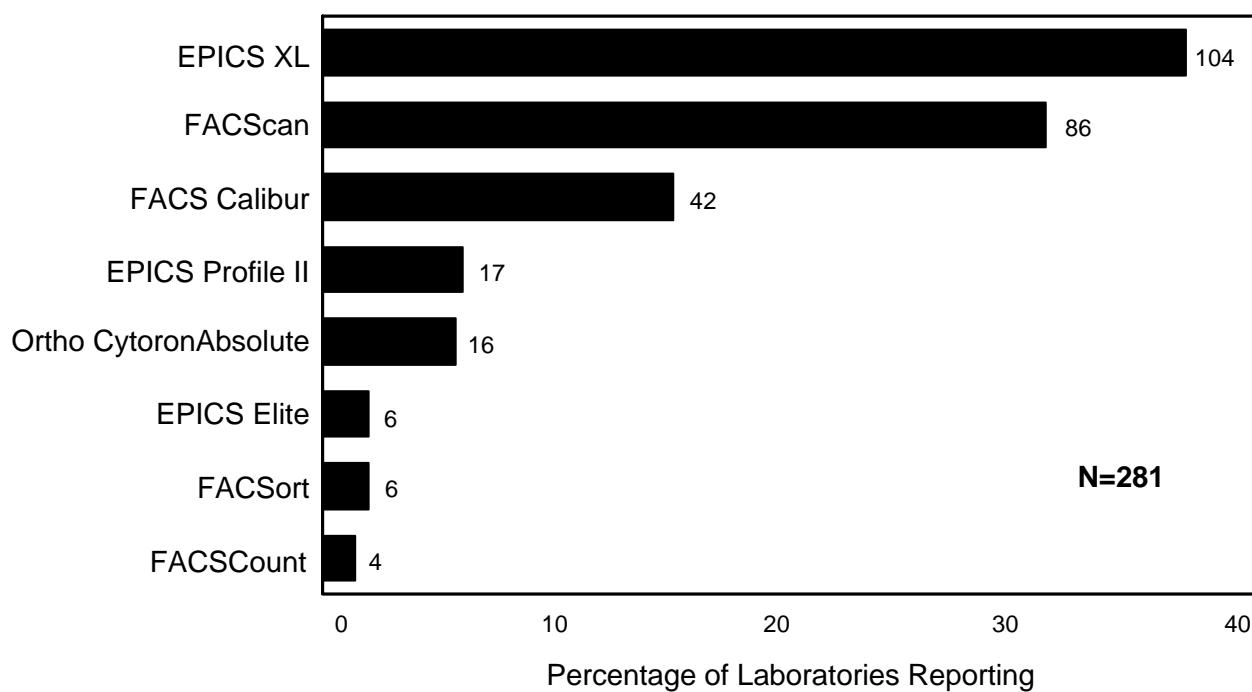
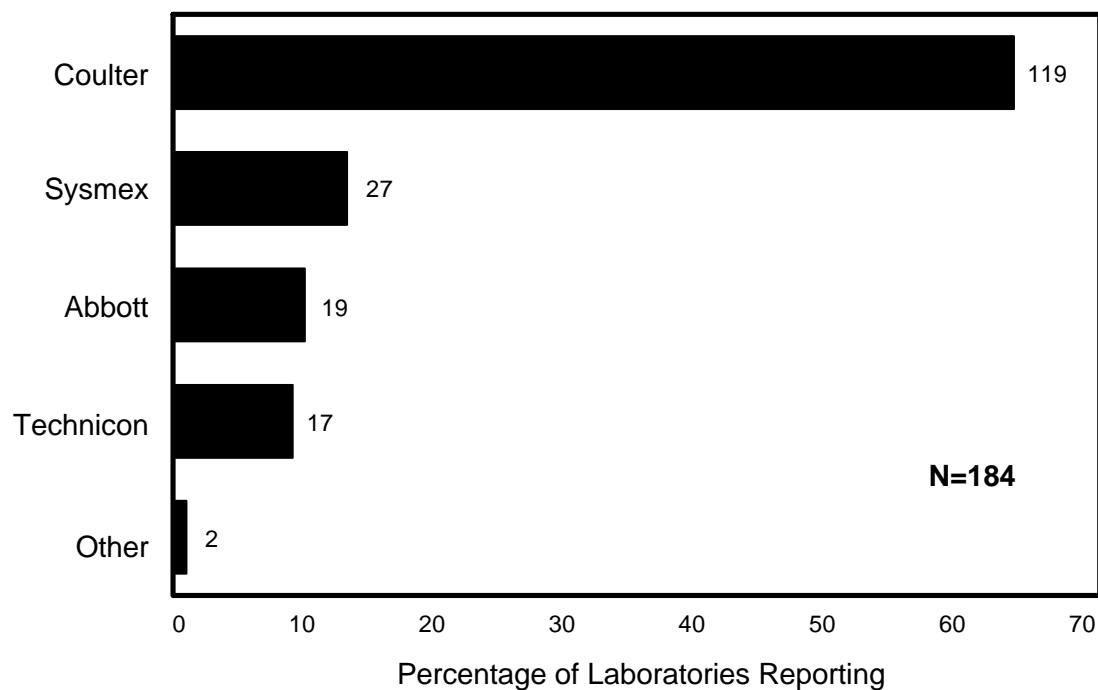


Figure 5. Types of hematology instruments used for T-lymphocyte immunophenotyping, reported by participant laboratories to CDC for the September/October 1998 shipment.



Explanation of Results Table

In the following results table, please note the following terms:

Cell Marker

The cell surface marker of interest. All results for this surface marker are shown regardless of the monoclonal antibody combination used for their determination:

CD45 -	results from 2-color CD45/CD14
CD14 -	results from 2-color CD45/CD14
CD4 -	combined results from 2-color CD3/CD4; 3-color CD45/CD3/CD4, CD3/CD4/CD8; and 4-color CD45/CD3/CD4/CD8
CD8 -	combined results from 2-color CD3/CD8; 3-color CD45/CD3/CD8, CD3/CD4/CD8; and 4-color CD45/CD3/CD4/CD8
CD19 -	combined results from 2-color CD3/CD19; 3-color CD45/CD3/CD19, CD3/CD19/CD56, CD3/CD19/CD16, CD3/CD19/CD56+16; and 4-color CD45/CD3/CD19/CD56, CD45/CD3/CD19/CD56+16
CD56+16 -	combined results from 2-color CD3/CD56+16; 3-color CD45/CD3/CD56+16, CD3/CD19/CD56+16; and 4-color CD45/CD3/CD19/CD56+16
CD3 average	combined results from 2-color CD3 average; 3-color CD3 average; and 4-color CD3 average
CD56 -	results from 2-color CD3/CD56; 3-color CD45/CD14/CD56, CD3/CD19/CD56; and 4-color CD45/CD3/CD19/CD56
CD16 -	results from 2-color CD3/CD16 and 3-color CD3/CD19/CD16

Percentage Results

The 95% confidence ranges are shown along with the number of reported results within, above, and below the established confidence range (see accompanying written analysis for the method of establishing the confidence range). **Note:** Due to a limited number of reported results for CD56 and CD16, no 95% confidence range was established for these markers. The ranges shown are the maximum and minimum values reported for these cell markers.

Absolute Counts

The results within, above, and below the 95% confidence ranges for the specified cell-marker specific absolute count derived either by multi-platform (flow cytometer/hematology analyzer) or single-platform (single instrument or alternate technique) methods.

Hematology Results

The 95% confidence ranges, the number of results within, above, and below the confidence ranges are listed for the following hematology parameters: white blood cell count (WBC), percent lymphocytes, absolute lymphocyte count.

Participant Laboratory Results for the September 1998 Shipment

Donor Number 1 - Donor Status: HIV-antibody Positive

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	94 - 100	25		
	< 94	1		
CD14	> 1	2		
	0 - 1	23		
	< 0	0		
CD4	> 46	3		
	40 - 46	45	701 - 999	2
	< 40	0	< 701	1
CD8	> 29	1		
	23 - 29	47	424 - 601	0
	< 23	0	< 424	35
CD19	> 19	0		
	14 - 19	38		
	< 14	2		
CD56+16	> 20	2		
	7 - 20	26		
	< 7	0		
CD3 Average	> 73	4		
	65 - 73	40		
	< 65	0		
CD56	1 - 11	8		
CD16	10 - 16	7		

Hematology Results

Hematology Parameter	Range	No.
WBC	> 8,105	0
	7,081 - 8,105	25
	< 7,081	1
% Lymphs	> 29	0
	24 - 29	26
	< 24	0
Absolute Lymphs	> 2,253	0
	1,740 - 2,253	26
	< 1,740	2

Donor Number 2 - Donor Status: HIV-antibody Positive

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	96 - 100	22		
	< 96	2		
CD14	> 1	0		
	0 - 1	22		
	< 0	0		
CD4	> 40	3		
	30 - 40	39	636 - 908	0
	< 30	2	< 636	29
CD8	> 61	0		
	46 - 61	36	1,018 - 1,342	1
	< 46	4	< 1,018	25
CD19	> 6	0		
	0 - 6	26		
	< 0	0		
CD56+16	> 3	0		
	1 - 3	14		
	< 1	0		
CD3 Average	> 96	0		
	91 - 96	30		
	< 91	0		
CD56	0 - 3	14		
CD16	2 - 3	2		

Hematology Results

Hematology Parameter	Range	No.
WBC	> 5,263	0
	4,596 - 5,263	24
	< 4,596	2
% Lymphs	> 51	2
	38 - 51	24
	< 38	0
Absolute Lymphs	> 2,428	0
	1,960 - 2,428	25
	< 1,960	1

Participant Laboratory Results for the September 1998 Shipment

Donor Number 3 - Donor Status: HIV-antibody Positive

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	92 - 100	26		
	< 92	0		
CD14	> 2	1		
	0 - 2	23		
	< 0	0		
CD4	> 41	0		
	35 - 41	42	636 - 1,197	32
	< 35	2	< 636	0
CD8	> 61	3		
	51 - 61	41	932 - 1,772	31
	< 51	0	< 932	0
CD19	> 3	0		
	1 - 3	36		
	< 1	2		
CD56+16	> 5	1		
	2 - 5	35		
	< 2	0		
CD3 Average	> 97	0		
	90 - 97	42		
	< 90	0		
CD56	3 - 11	4		
CD16	3 - 3	2		

Hematology Results

Hematology Parameter	Range	No.
WBC	> 6,567	1
	5,665 - 6,567	25
	< 5,665	0
% Lymphs	> 52	0
	28 - 52	26
	< 28	0
Absolute Lymphs	> 3,141	0
	1,749 - 3,141	26
	< 1,749	0

Donor Number 4 - Donor Status: HIV-antibody Positive

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	95 - 100	36		
	< 95	0		
CD14	> 1	2		
	0 - 1	34		
	< 0	0		
CD4	> 44	4		
	30 - 44	41	714 - 991	23
	< 30	0	< 714	0
CD8	> 49	1		
	41 - 49	45	876 - 1,223	22
	< 41	0	< 876	0
CD19	> 15	0		
	7 - 15	35		
	< 7	3		
CD56+16	> 7	0		
	2 - 7	30		
	< 2	0		
CD3 Average	> 94	2		
	76 - 94	36		
	< 76	0		
CD56	2 - 14	8		
CD16	NA			

Hematology Results

Hematology Parameter	Range	No.
WBC	> 4,808	0
	3,883 - 4,808	22
	< 3,883	0
% Lymphs	> 59	0
	50 - 59	22
	< 50	0
Absolute Lymphs	> 2,693	1
	2,059 - 2,693	21
	< 2,059	0

Participant Laboratory Results for the September 1998 Shipment

Donor Number 5 - Donor Status: HIV-antibody Positive

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	95 - 100	29		
	< 95	1		
CD14	> 3	6		
	0 - 3	24		
	< 0	0		
CD4	> 44	2		
	33 - 44	37		
	< 33	1		
CD8	> 51	1		
	43 - 51	37		
	< 43	2		
CD19	> 10	0		
	5 - 10	35		
	< 5	1		
CD56+16	> 8	0		
	1 - 8	24		
	< 1	0		
CD3 Average	> 93	0		
	82 - 93	35		
	< 82	1		
CD56	2 - 4	10		
CD16	3 - 5	2		

Hematology Results

Hematology Parameter	Range	No.
WBC	> 6,129	1
	5,116 - 6,129	25
	< 5,116	0
% Lymphs	> 40	2
	26 - 40	24
	< 26	0
Absolute Lymphs	> 2,297	1
	1,372 - 2,297	23
	< 1,372	0

Donor Number 6 - Donor Status: HIV-antibody Positive

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	93 - 100	26		
	< 93	0		
CD14	> 2	1		
	0 - 2	23		
	< 0	0		
CD4	> 43	0		
	34 - 43	43		
	< 34	1		
CD8	> 50	1		
	42 - 50	41		
	< 42	2		
CD19	> 13	0		
	6 - 13	34		
	< 6	2		
CD56+16	> 6	1		
	1 - 6	31		
	< 1	0		
CD3 Average	> 90	1		
	80 - 90	39		
	< 80	0		
CD56	1 - 2	4		
CD16	2 - 5	6		

Hematology Results

Hematology Parameter	Range	No.
WBC	> 7,989	2
	6,817 - 7,989	21
	< 6,817	1
% Lymphs	> 36	1
	19 - 36	23
	< 19	0
Absolute Lymphs	> 2,750	1
	1,306 - 2,750	23
	< 1,306	0

Participant Laboratory Results for the September 1998 Shipment

Donor Number 7 - Donor Status: HIV-antibody Positive

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	90 - 100	28		
	< 90	3		
CD14	> 2	1		
	0 - 2	30		
	< 0	0		
CD4	> 4	1		
	1 - 4	46		
	< 1	0		
CD8	> 84	1		
	67 - 84	45		
	< 67	1		
CD19	> 16	0		
	6 - 16	37		
	< 6	2		
CD56+16	> 12	2		
	3 - 12	27		
	< 3	0		
CD3 Average	> 89	1		
	71 - 89	40		
	< 71	0		
CD56	3 - 9	8		
CD16	5 - 10	4		

Hematology Results

Hematology Parameter	Range	No.
WBC	> 5,349	0
	4,618 - 5,349	23
	< 4,618	1
% Lymphs	> 28	2
	8 - 28	22
	< 8	0
Absolute Lymphs	> 1,424	2
	379 - 1,424	23
	< 379	0

Donor Number 8 - Donor Status: HIV-antibody Positive

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	91 - 100	25		
	< 91	2		
CD14	> 3	3		
	0 - 3	23		
	< 0	0		
CD4	> 11	2		
	7 - 11	39		
	< 7	1		
CD8	> 81	0		
	69 - 81	38		
	< 69	2		
CD19	> 10	0		
	3 - 10	29		
	< 3	2		
CD56+16	> 10	0		
	0 - 10	19		
	< 0	0		
CD3 Average	> 93	0		
	83 - 93	32		
	< 83	1		
CD56	0 - 5	12		
CD16	0 - 3	2		

Hematology Results

Hematology Parameter	Range	No.
WBC	> 5,845	1
	4,723 - 5,845	24
	< 4,723	1
% Lymphs	> 40	0
	29 - 40	26
	< 29	0
Absolute Lymphs	> 2,141	1
	1,448 - 2,141	24
	< 1,448	0

Participant Laboratory Results for the September 1998 Shipment

Donor Number 9 - Donor Status: HIV-antibody Positive

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	94 - 100	25		
	< 94	1		
CD14	> 1	1		
	0 - 1	23		
	< 0	0		
CD4	> 50	1		
	42 - 50	41		
	< 42	2		
CD8	> 39	3		
	33 - 39	41		
	< 33	0		
CD19	> 8	1		
	5 - 8	34		
	< 5	2		
CD56+16	> 9	0		
	5 - 9	33		
	< 5	1		
CD3 Average	> 89	2		
	82 - 89	39		
	< 82	0		
CD56	4 - 9	4		
CD16	6 - 8	4		

Hematology Results

Hematology Parameter	Range	No.
WBC	> 7,551	0
	6,189 - 7,551	24
	< 6,189	1
% Lymphs	> 32	2
	11 - 32	23
	< 11	0
Absolute Lymphs	> 2,170	2
	774 - 2,170	23
	< 774	0

Donor Number 10 - Donor Status: HIV-antibody Negative

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	92 - 100	55		
	< 92	2		
CD14	> 2	2		
	0 - 2	53		
	< 0	0		
CD4	> 64	6		
	47 - 64	84		
	< 47	1		
CD8	> 10	1		
	6 - 10	88		
	< 6	2		
CD19	> 33	0		
	23 - 33	71		
	< 23	5		
CD56+16	> 11	1		
	4 - 11	59		
	< 4	3		
CD3 Average	> 71	7		
	56 - 71	75		
	< 56	0		
CD56	3 - 8	12		
CD16	6 - 11	8		

Hematology Results

Hematology Parameter	Range	No.
WBC	> 7,385	1
	6,191 - 7,385	44
	< 6,191	4
% Lymphs	> 42	4
	22 - 42	44
	< 22	1
Absolute Lymphs	> 2,896	6
	1,426 - 2,896	43
	< 1,426	1

Participant Laboratory Results for the September 1998 Shipment

Donor Number 11 - Donor Status: HIV-antibody Negative

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	91 - 100	56		
	< 91	2		
CD14	> 2	4		
	0 - 2	52		
	< 0	0		
CD4	> 57	7		
	48 - 57	81		
	< 48	1		
CD8	> 22	4		
	17 - 22	82		
	< 17	1		
CD19	> 15	0		
	9 - 15	67		
	< 9	3		
CD56+16	> 17	1		
	9 - 17	45		
	< 9	2		
CD3 Average	> 78	4		
	69 - 78	68		
	< 69	2		
CD56	0 - 16	20		
CD16	0 - 15	6		

Hematology Results

Hematology Parameter	Range	No.
WBC	> 7,060	1
	6,182 - 7,060	48
	< 6,182	1
% Lymphs	> 31	4
	19 - 31	46
	< 19	0
Absolute Lymphs	> 2,040	4
	1,203 - 2,040	46
	< 1,203	0

Donor Number 12 - Donor Status: HIV-antibody Negative

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	94 - 100	50		
	< 94	3		
CD14	> 2	4		
	0 - 2	46		
	< 0	0		
CD4	> 38	3		
	30 - 38	81		
	< 30	2		
CD8	> 28	2		
	20 - 28	81		
	< 20	1		
CD19	> 28	0		
	18 - 28	65		
	< 18	3		
CD56+16	> 12	3		
	5 - 12	50		
	< 5	0		
CD3 Average	> 73	3		
	62 - 73	69		
	< 62	2		
CD56	0 - 21	16		
CD16	4 - 9	6		

Hematology Results

Hematology Parameter	Range	No.
WBC	> 5,931	0
	4,944 - 5,931	50
	< 4,944	1
% Lymphs	> 41	2
	29 - 41	48
	< 29	1
Absolute Lymphs	> 2,269	3
	1,531 - 2,269	47
	< 1,531	0

Participant Laboratory Results for the October 1998 Shipment

Donor Number 13 - Donor Status: HIV-antibody Positive

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	93 - 100	22		
	< 93	0		
CD14	> 1	2		
	0 - 1	20		
	< 0	0		
CD4	> 41	1		
	34 - 41	47	426 - 701	1
	< 34	0	< 426	37
CD8	> 59	0		
	47 - 59	48	584 - 987	1
	< 47	0	< 584	36
CD19	> 2	1		
	0 - 2	39		
	< 0	0		
CD56+16	> 12	0		
	6 - 12	28		
	< 6	0		
CD3 Average	> 91	1		
	85 - 91	41		
	< 85	0		
CD56	3 - 10	8		
CD16	1 - 1	4		

Hematology Results

Hematology Parameter	Range	No.
WBC	> 4,206	0
	3,260 - 4,206	28
	< 3,260	0
% Lymphs	> 43	0
	35 - 43	28
	< 35	0
Absolute Lymphs	> 1,745	0
	1,218 - 1,745	25
	< 1,218	1

Donor Number 14 - Donor Status: HIV-antibody Positive

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	93 - 100	39		
	< 93	3		
CD14	> 1	2		
	0 - 1	40		
	< 0	0		
CD4	> 48	0		
	40 - 48	45	745 - 1,178	4
	< 40	3	< 745	28
CD8	> 42	1		
	33 - 42	46	664 - 961	4
	< 33	1	< 664	28
CD19	> 16	0		
	6 - 16	34		
	< 6	2		
CD56+16	> 11	0		
	4 - 11	26		
	< 4	0		
CD3 Average	> 86	1		
	76 - 86	39		
	< 76	0		
CD56	3 - 5	6		
CD16	5 - 7	4		

Hematology Results

Hematology Parameter	Range	No.
WBC	> 9,142	2
	8,226 - 9,142	30
	< 8,226	0
% Lymphs	> 31	4
	20 - 31	28
	< 20	0
Absolute Lymphs	> 2,614	4
	1,748 - 2,614	28
	< 1,748	0

Participant Laboratory Results for the October 1998 Shipment

Donor Number 15 - Donor Status: HIV-antibody Positive

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	93 - 100	25		
	< 93	1		
CD14	> 4	0		
	0 - 4	24		
	< 0	0		
CD4	> 39	2		
	34 - 39	48		
	< 34	0		
CD8	> 50	2		
	43 - 50	46		
	< 43	2		
CD19	> 7	0		
	4 - 7	36		
	< 4	2		
CD56+16	> 11	0		
	7 - 11	28		
	< 7	0		
CD3 Average	> 89	3		
	81 - 89	41		
	< 81	0		
CD56	1 - 7	6		
CD16	0 - 0	2		

Hematology Results

Hematology Parameter	Range	No.
WBC	> 5,782	0
	4,706 - 5,782	24
	< 4,706	0
% Lymphs	> 55	3
	26 - 55	21
	< 26	0
Absolute Lymphs	> 2,910	2
	1,338 - 2,910	22
	< 1,338	0

Donor Number 16 - Donor Status: HIV-antibody Positive

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	91 - 100	20		
	< 91	0		
CD14	> 4	2		
	0 - 4	18		
	< 0	0		
CD4	> 37	2		
	26 - 37	44		
	< 26	0		
CD8	> 52	1		
	39 - 52	45		
	< 39	0		
CD19	> 21	0		
	8 - 21	33		
	< 8	1		
CD56+16	> 9	2		
	3 - 9	20		
	< 3	0		
CD3 Average	> 91	2		
	67 - 91	36		
	< 67	0		
CD56	3 - 14	8		
CD16	1 - 9	8		

Hematology Results

Hematology Parameter	Range	No.
WBC	> 4,924	1
	4,052 - 4,924	31
	< 4,052	2
% Lymphs	> 53	4
	33 - 53	29
	< 33	0
Absolute Lymphs	> 2,385	4
	1,490 - 2,385	29
	< 1,490	0

Participant Laboratory Results for the October 1998 Shipment

Donor Number 17 - Donor Status: HIV-antibody Positive

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	95 - 100	27		
	< 95	1		
CD14	> 1	0		
	0 - 1	24		
	< 0	0		
CD4	> 47	0		
	41 - 47	52		
	< 41	0		
CD8	> 45	1		
	38 - 45	49		
	< 38	2		
CD19	> 10	0		
	5 - 10	40		
	< 5	2		
CD56+16	> 5	0		
	2 - 5	24		
	< 2	0		
CD3 Average	> 91	0		
	84 - 91	44		
	< 84	2		
CD56	0 - 3	14		
CD16	3 - 5	6		

Hematology Results

Hematology Parameter	Range	No.
WBC	> 6,752	1
	5,761 - 6,752	23
	< 5,761	0
% Lymphs	> 29	0
	22 - 29	22
	< 22	0
Absolute Lymphs	> 1,893	0
	1,320 - 1,893	21
	< 1,320	1

Donor Number 18 - Donor Status: HIV-antibody Positive

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	96 - 100	29		
	< 96	1		
CD14	> 2	0		
	0 - 2	30		
	< 0	0		
CD4	> 41	4		
	32 - 41	46		
	< 32	0		
CD8	> 50	0		
	41 - 50	50		
	< 41	0		
CD19	> 11	0		
	5 - 11	36		
	< 5	2		
CD56+16	> 10	0		
	2 - 10	30		
	< 2	2		
CD3 Average	> 93	0		
	78 - 93	44		
	< 78	0		
CD56	1 - 6	8		
CD16	5 - 6	2		

Hematology Results

Hematology Parameter	Range	No.
WBC	> 5,952	0
	5,070 - 5,952	26
	< 5,070	2
% Lymphs	> 64	0
	48 - 64	26
	< 48	2
Absolute Lymphs	> 3,682	0
	2,483 - 3,682	28
	< 2,483	0

Participant Laboratory Results for the October 1998 Shipment

Donor Number 19 - Donor Status: HIV-antibody Positive

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	92 - 100	21		
	< 92	0		
CD14	> 4	0		
	0 - 4	20		
	< 0	0		
CD4	> 14	1		
	10 - 14	44		
	< 10	2		
CD8	> 67	1		
	52 - 67	46		
	< 52	0		
CD19	> 17	1		
	7 - 17	37		
	< 7	0		
CD56+16	> 15	1		
	2 - 15	24		
	< 2	0		
CD3 Average	> 80	2		
	65 - 80	38		
	~	~		
CD56	3 - 11	8		
CD16	2 - 16	6		

Hematology Results

Hematology Parameter	Range	No.
WBC	> 3,635	0
	2,958 - 3,635	30
	< 2,958	1
% Lymphs	> 48	3
	28 - 48	28
	< 28	0
Absolute Lymphs	> 1,631	2
	921 - 1,631	29
	< 921	0

Donor Number 20 - Donor Status: HIV-antibody Positive

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	91 - 100	34		
	< 91	1		
CD14	> 2	0		
	0 - 2	33		
	< 0	0		
CD4	> 16	1		
	11 - 16	49		
	< 11	0		
CD8	> 51	2		
	40 - 51	47		
	< 40	1		
CD19	> 35	0		
	19 - 35	37		
	< 19	2		
CD56+16	> 18	1		
	8 - 18	24		
	< 8	0		
CD3 Average	> 64	2		
	54 - 64	40		
	< 54	1		
CD56	4 - 12	10		
CD16	9 - 18	5		

Hematology Results

Hematology Parameter	Range	No.
WBC	> 4,992	1
	4,295 - 4,992	26
	< 4,295	1
% Lymphs	> 34	2
	19 - 34	24
	< 19	1
Absolute Lymphs	> 1,594	2
	857 - 1,594	24
	< 857	1

Participant Laboratory Results for the October 1998 Shipment

Donor Number 21 - Donor Status: HIV-antibody Positive

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	91 - 100	26		
	< 91	1		
CD14	> 3	2		
	0 - 3	24		
	< 0	0		
CD4	> 8	0		
	5 - 8	49		
	< 5	0		
CD8	> 74	3		
	60 - 74	46		
	< 60	0		
CD19	> 21	0		
	8 - 21	36		
	< 8	2		
CD56+16	> 8	1		
	2 - 8	30		
	< 2	0		
CD3 Average	> 88	3		
	71 - 88	39		
	< 71	1		
CD56	1 - 4	6		
CD16	4 - 4	1		

Hematology Results

Hematology Parameter	Range	No.
WBC	> 13,023	1
	9,610 - 13,023	24
	< 9,610	0
% Lymphs	> 28	1
	6 - 28	23
	< 6	1
Absolute Lymphs	> 3,206	1
	706 - 3,206	22
	< 706	2

Donor Number 22 - Donor Status: HIV-antibody Negative

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	94 - 100	49		
	< 94	0		
CD14	> 1	5		
	0 - 1	42		
	< 0	0		
CD4	> 55	3		
	47 - 55	90		
	< 47	4		
CD8	> 35	0		
	29 - 35	93		
	< 29	4		
CD19	> 14	1		
	9 - 14	72		
	< 9	3		
CD56+16	> 9	2		
	0 - 9	54		
	< 0	0		
CD3 Average	> 88	5		
	79 - 88	74		
	< 79	5		
CD56	1 - 5	15		
CD16	1 - 12	8		

Hematology Results

Hematology Parameter	Range	No.
WBC	> 5,728	1
	4,891 - 5,728	53
	< 4,891	2
% Lymphs	> 45	3
	29 - 45	52
	< 29	1
Absolute Lymphs	> 2,322	4
	1,551 - 2,322	51
	< 1,551	0

Participant Laboratory Results for the October 1998 Shipment

Donor Number 23 - Donor Status: HIV-antibody Negative

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	93 - 100	56		
	< 93	0		
CD14	> 1	3		
	0 - 1	52		
	< 0	0		
CD4	> 55	2		
	47 - 55	92		
	< 47	2		
CD8	> 36	4		
	25 - 36	91		
	< 25	1		
CD19	> 14	1		
	9 - 14	69		
	< 9	5		
CD56+16	> 11	3		
	4 - 11	45		
	< 4	1		
CD3 Average	76 - 85	75		
	< 76	4		
CD56	3 - 9	18		
CD16	4 - 13	11		

Hematology Results

Hematology Parameter	Range	No.
WBC	> 5,781	2
	4,951 - 5,781	55
	< 4,951	2
% Lymphs	> 34	6
	20 - 34	52
	< 20	0
Absolute Lymphs	> 1,807	5
	1,050 - 1,807	52
	< 1,050	0

Donor Number 24 - Donor Status: HIV-antibody Negative

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	91 - 100	61		
	< 91	2		
CD14	> 2	4		
	0 - 2	57		
	< 0	0		
CD4	> 54	5		
	45 - 54	94		
	< 45	1		
CD8	> 21	1		
	15 - 21	98		
	< 15	1		
CD19	> 17	1		
	12 - 17	72		
	< 12	5		
CD56+16	> 19	0		
	12 - 19	54		
	< 12	2		
CD3 Average	> 74	5		
	64 - 74	80		
	< 64	2		
CD56	5 - 15	17		
CD16	8 - 17	7		

Hematology Results

Hematology Parameter	Range	No.
WBC	> 6,600	1
	5,330 - 6,600	51
	< 5,330	2
% Lymphs	> 46	4
	28 - 46	49
	< 28	0
Absolute Lymphs	> 2,957	4
	1,466 - 2,957	49
	< 1,466	0