

***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 March 1998 Shipment***

***U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES  
Public Health Service  
Centers for Disease Control and Prevention  
Public Health Practice Program Office  
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Atlanta, Georgia 30333***



***Use of trade names is for identification only and does not constitute endorsement by the  
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Figures and Table Used for the Analysis of the March 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 March 17, 1998 TLI Shipment Specimens**

<b>Panel Letter</b>	<b>Participant Lab Vial Label</b>	<b>CDC Donor Number</b>	<b>Donor Information (HIV-1<sup>a</sup> status)</b>
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

<sup>a</sup>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 March 24, 1998 TLI Shipment Specimens**

<b>Panel Letter</b>	<b>Participant Lab Vial Label</b>	<b>CDC Donor Number</b>	<b>Donor Information (HIV-1<sup>a</sup> status)</b>
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-Negative
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-Negative
	L5	22	HIV-1 Antibody-Negative

<sup>a</sup>Human immunodeficiency virus type 1

Figure 1. Primary classification of laboratories participating in the March 1998 shipment.

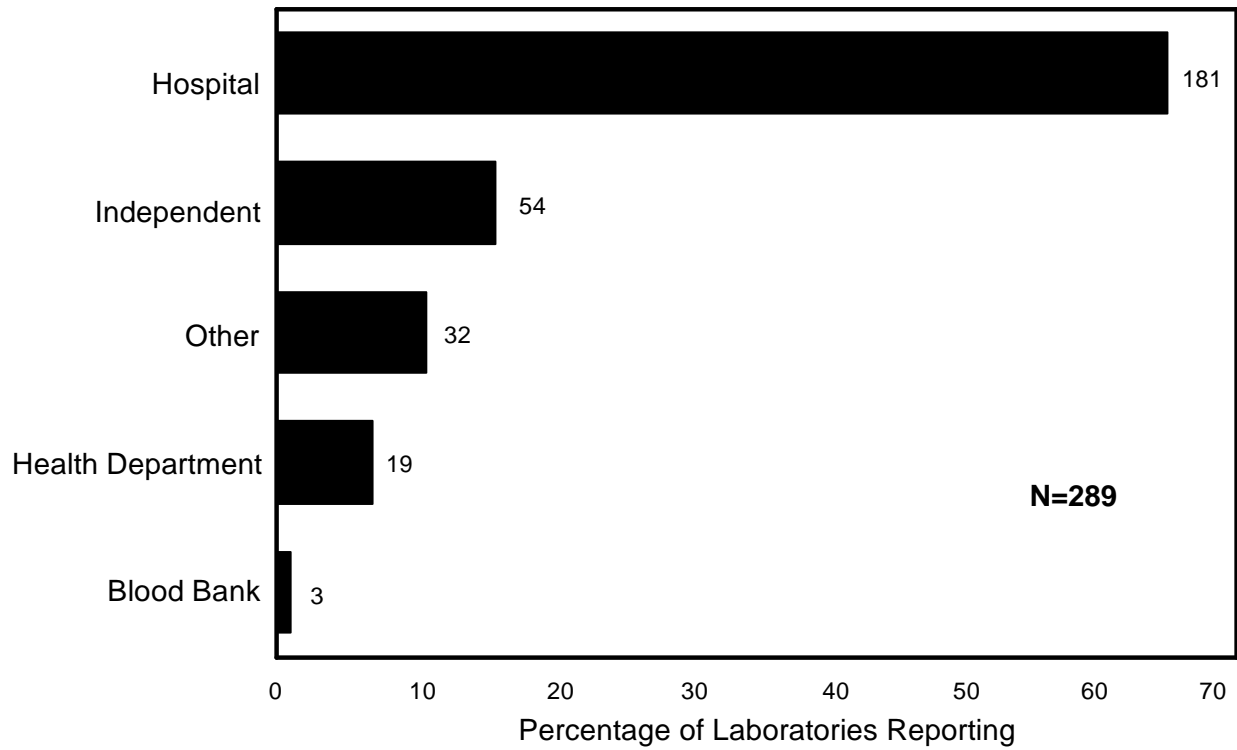


Figure 2. Methods used to prepare specimens for T-lymphocyte immunophenotyping, reported by participant laboratories to CDC for the March 1998 shipment.

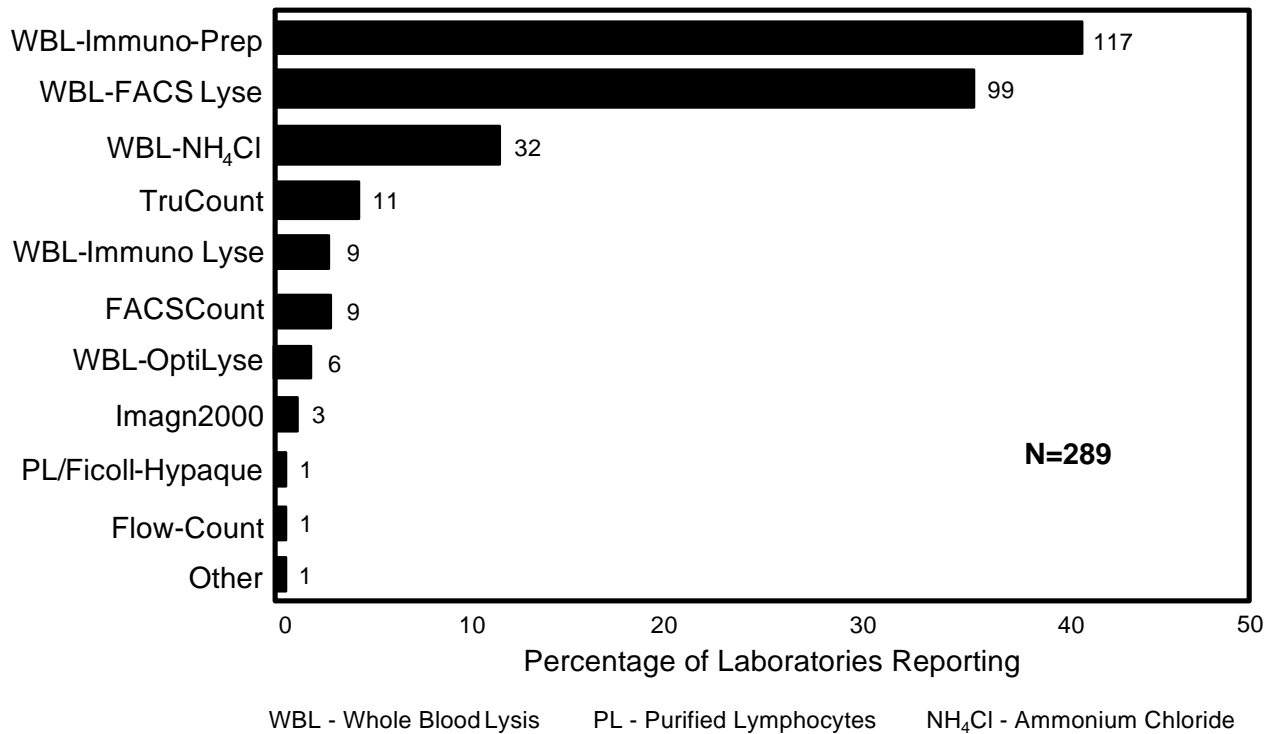


Figure 3. Methods used to fix specimens for T-lymphocyte immunophenotyping, reported by participant laboratories to CDC for the March 1998 shipment.

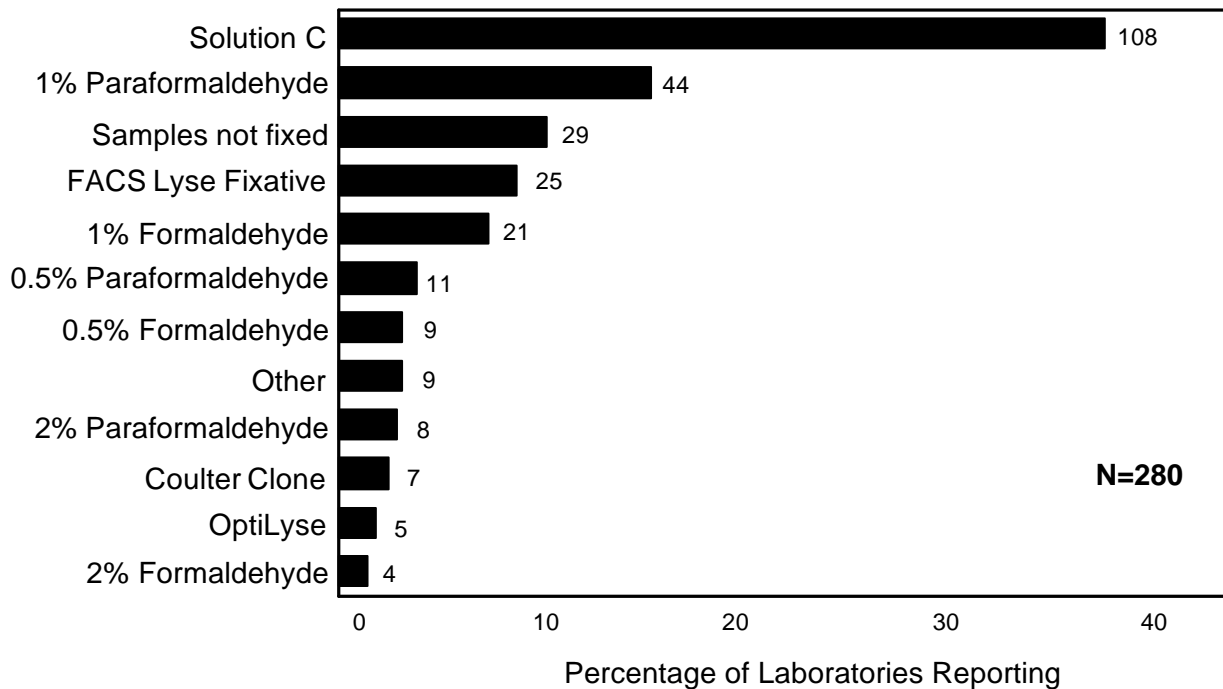


Figure 4. Types of flow cytometers used for T-lymphocyte immunophenotyping, reported by participant laboratories to CDC for the March 1998 shipment.

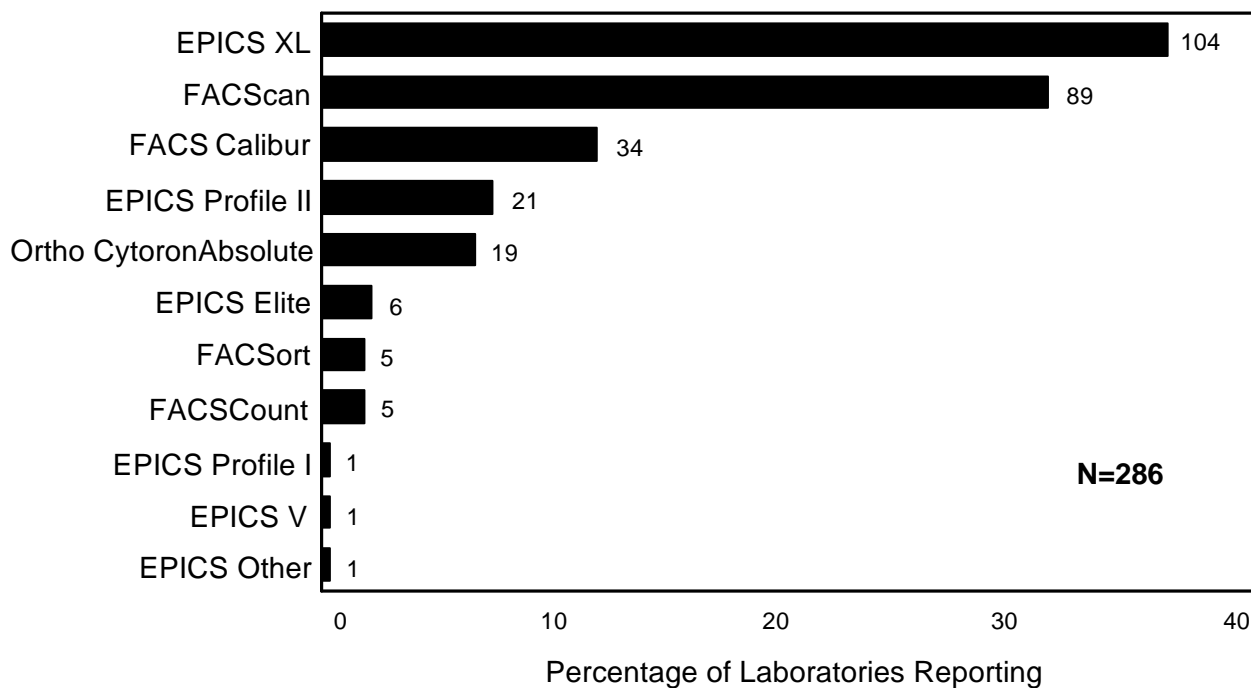
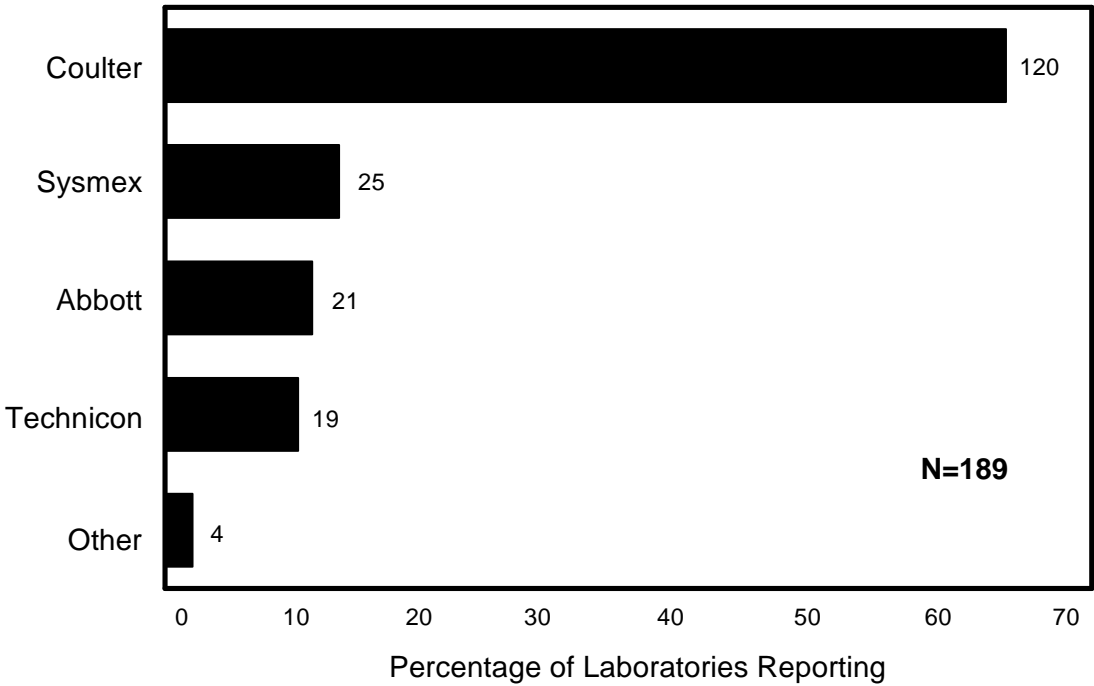


Figure 5. Types of hematology instruments used for T-lymphocyteimmunophenotyping, reported by participant laboratories to CDC for the March 1998 shipment.



## Explanation of Results Table

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

<b>Cell Marker</b>	<p>The cell surface marker of interest. All results for this surface marker are shown regardless of the monoclonal antibody combination used for their determination:</p> <p>CD45 - results from 2-color CD45/CD14</p> <p>CD14 - results from 2-color CD45/CD14</p> <p>CD4 - combined results from 2-color CD3/CD4; 3-color CD45/CD3/CD4, CD3/CD4/CD8; and 4-color CD45/CD3/CD4/CD8</p> <p>CD8 - combined results from 2-color CD3/CD8; 3-color CD45/CD3/CD8, CD3/CD4/CD8; and 4-color CD45/CD3/CD4/CD8</p> <p>CD19 - combined results from 2-color CD3/CD19; 3-color CD45/CD3/CD19, CD3/CD19/56, CD3/CD19/CD16, CD3/CD19/CD56+16; and 4-color CD45/CD3/CD19/CD56, CD45/CD3/CD19/CD56+16</p> <p>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</p> <p>CD3 average combined results from 2-color CD3 average; 3-color CD3 average; and 4-color CD3 average</p> <p>CD56 - results from 2-color CD3/CD56; 3-color CD45/CD14/CD56, CD3/CD19/CD56; and 4-color CD45/CD3/CD19/CD56</p> <p>CD16 - results from 2-color CD3/CD16 and 3-color CD3/CD19/CD16</p>
<b>Percentage Results</b>	<p>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). <b>Note:</b> 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.</p>
<b>Absolute Counts</b>	<p>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.</p>
<b>Hematology Results</b>	<p>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.</p>



# Participant Laboratory Results for the March 1998 Shipment

## Donor Number 1 - Donor Status: HIV-antibody Positive

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	92 - 100	28		
	< 92	0		
CD14	> 3	0		
	0 - 3	28		
	< 0	0		
CD4	> 49	2	> 1,248	2
	40 - 49	54	803 - 1,248	40
	< 40	0	< 803	0
CD8	> 41	0	> 1,051	1
	30 - 41	53	585 - 1,051	38
	< 30	1	< 585	1
CD19	> 16	0		
	7 - 16	46		
	< 7	0		
CD56+16	> 12	0		
	4 - 12	32		
	< 4	0		
CD3 Average	> 86	0		
	74 - 86	45		
	< 74	3		
CD56	5 - 9	8		
CD16	6 - 10	6		

### Hematology Results

Hematology Parameter	Range	No.
WBC	> 8,392	0
	6,800 - 8,392	26
	< 6,800	2
% Lymphs	> 40	1
	24 - 40	27
	< 24	0
Absolute Lymphs	> 2,947	1
	1,848 - 2,947	27
	< 1,848	0

## Donor Number 2 - Donor Status: HIV-antibody Positive

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	93 - 100	21		
	< 93	1		
CD14	> 3	0		
	0 - 3	22		
	< 0	0		
CD4	> 35	1	> 786	2
	27 - 35	40	340 - 786	33
	< 27	1	< 340	1
CD8	> 49	2	> 1,024	2
	38 - 49	40	556 - 1,024	33
	< 38	0	< 556	1
CD19	> 14	0		
	5 - 14	32		
	< 5	0		
CD56+16	> 14	0		
	6 - 14	18		
	< 6	0		
CD3 Average	> 85	1		
	73 - 85	35		
	< 73	2		
CD56	1 - 9	10		
CD16	6 - 10	4		

### Hematology Results

Hematology Parameter	Range	No.
WBC	> 7,190	0
	5,598 - 7,190	28
	< 5,598	0
% Lymphs	> 37	2
	21 - 37	26
	< 21	0
Absolute Lymphs	> 2,401	2
	1,301 - 2,401	24
	< 1,301	0

# Participant Laboratory Results for the March 1998 Shipment

## Donor Number 3 - Donor Status: HIV-antibody Positive

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	93 - 100	20		
	< 93	4		
CD14	> 2	2		
	0 - 2	22		
	< 0	0		
CD4	> 44	3	> 1,039	5
	36 - 44	41	593 - 1,039	29
	< 36	0	< 593	0
CD8	> 33	2	> 794	1
	23 - 33	40	327 - 794	33
	< 23	2	< 327	0
CD19	> 20	0		
	11 - 20	34		
	< 11	0		
CD56+16	> 19	0		
	10 - 19	24		
	< 10	2		
CD3 Average	> 76	6		
	64 - 76	37		
	< 64	1		
CD56	9 - 18	6		
CD16	15 - 18	4		

### Hematology Results

Hematology Parameter	Range	No.
WBC	> 7,237	2
	5,646 - 7,237	30
	< 5,646	0
% Lymphs	> 40	6
	24 - 40	26
	< 24	0
Absolute Lymphs	> 2,627	2
	1,529 - 2,627	28
	< 1,529	2

## Donor Number 4 - Donor Status: HIV-antibody Positive

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	92 - 100	28		
	< 92	0		
CD14	> 3	0		
	0 - 3	28		
	< 0	0		
CD4	> 42	0	> 774	0
	34 - 42	46	327 - 774	30
	< 34	0	< 327	0
CD8	> 54	0	> 952	1
	44 - 54	46	483 - 952	27
	< 44	0	< 483	0
CD19	> 9	0		
	0 - 9	36		
	< 0	0		
CD56+16	> 7	0		
	0 - 7	32		
	< 0	0		
CD3 Average	> 98	0		
	85 - 98	40		
	< 85	0		
CD56	2 - 2	2		
CD16	2 - 2	2		

### Hematology Results

Hematology Parameter	Range	No.
WBC	> 5,842	0
	4,250 - 5,842	28
	< 4,250	0
% Lymphs	> 37	1
	21 - 37	27
	< 21	0
Absolute Lymphs	> 2,006	1
	908 - 2,006	29
	< 908	0

# Participant Laboratory Results for the March 1998 Shipment

## Donor Number 5 - Donor Status: HIV-antibody Positive

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	93 - 100	33		
	< 93	1		
CD14	> 2	2		
	0 - 2	32		
	< 0	0		
CD4	> 53	2	> 848	1
	44 - 53	42	399 - 848	24
	< 44	2	< 399	1
CD8	> 42	2	> 726	1
	32 - 42	44	257 - 726	25
	< 32	0	< 257	0
CD19	> 9	0		
	0 - 9	32		
	< 0	0		
CD56+16	> 11	2		
	3 - 11	14		
	< 3	0		
CD3 Average	> 95	0		
	82 - 95	32		
	< 82	0		
CD56	2 - 7	10		
CD16	4 - 9	8		

### Hematology Results

Hematology Parameter	Range	No.
WBC	> 5,584	0
	3,987 - 5,584	23
	< 3,987	1
% Lymphs	> 36	4
	20 - 36	20
	< 20	0
Absolute Lymphs	> 1,921	1
	821 - 1,921	24
	< 821	1

## Donor Number 6 - Donor Status: HIV-antibody Positive

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	94 - 100	32		
	< 94	0		
CD14	> 2	3		
	0 - 2	28		
	< 0	0		
CD4	> 41	1	> 998	0
	33 - 41	49	551 - 998	32
	< 33	0	< 551	0
CD8	> 52	0	> 1,219	0
	42 - 52	50	751 - 1,219	32
	< 42	0	< 751	0
CD19	> 13	0		
	4 - 13	32		
	< 4	0		
CD56+16	> 9	0		
	0 - 9	16		
	< 0	0		
CD3 Average	> 92	0		
	79 - 92	46		
	< 79	0		
CD56	3 - 10	8		
CD16	2 - 5	6		

### Hematology Results

Hematology Parameter	Range	No.
WBC	> 5,136	0
	3,539 - 5,136	24
	< 3,539	0
% Lymphs	> 56	1
	41 - 56	23
	< 41	0
Absolute Lymphs	> 2,665	0
	1,562 - 2,665	24
	< 1,562	0

# Participant Laboratory Results for the March 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	25		
	< 90	2		
CD14	> 3	0		
	0 - 3	27		
	< 0	0		
CD4	> 20	1	> 472	0
	11 - 20	49	26 - 472	36
	< 11	0	< 26	0
CD8	> 62	3	> 1,136	2
	52 - 62	46	669 - 1,136	32
	< 52	0	< 669	0
CD19	> 19	3		
	11 - 19	32		
	< 11	5		
CD56+16	> 11	0		
	3 - 11	31		
	< 3	0		
CD3 Average	> 82	1		
	70 - 82	42		
	< 70	1		
CD56	3 - 7	4		
CD16	8 - 11	3		

### Hematology Results

Hematology Parameter	Range	No.
WBC	> 7,113	0
	5,521 - 7,113	27
	< 5,521	1
% Lymphs	> 33	0
	18 - 33	28
	< 18	0
Absolute Lymphs	> 2,132	1
	1,034 - 2,132	28
	< 1,034	0

## Donor Number 8 - Donor Status: HIV-antibody Positive

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	92 - 100	28		
	< 92	1		
CD14	> 3	1		
	0 - 3	28		
	< 0	0		
CD4	> 17	0	> 504	0
	8 - 17	45	57 - 504	32
	< 8	0	< 57	0
CD8	> 77	4	> 1,876	3
	67 - 77	40	1,408 - 1,876	25
	< 67	1	< 1,408	4
CD19	> 13	0		
	4 - 13	33		
	< 4	0		
CD56+16	> 8	1		
	0 - 8	17		
	< 0	0		
CD3 Average	> 93	0		
	81 - 93	35		
	< 81	1		
CD56	1 - 6	11		
CD16	3 - 13	6		

### Hematology Results

Hematology Parameter	Range	No.
WBC	> 6,660	1
	5,066 - 6,660	24
	< 5,066	2
% Lymphs	> 47	3
	31 - 47	24
	< 31	0
Absolute Lymphs	> 2,801	0
	1,702 - 2,801	27
	< 1,702	0

# Participant Laboratory Results for the March 1998 Shipment

## Donor Number 9 - Donor Status: HIV-antibody Positive

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 99	6		
	90 - 99	18		
	< 90	4		
CD14	> 3	3		
	0 - 3	25		
	< 0	0		
CD4	> 6	0	> 234	0
	0 - 6	47	0 - 234	31
	< 0	0	< 0	0
CD8	> 54	3	> 625	2
	44 - 54	38	156 - 625	29
	< 44	6	< 156	0
CD19	> 24	6		
	16 - 24	21		
	< 16	6		
CD56+16	> 27	1		
	18 - 27	18		
	< 18	3		
CD3 Average	> 61	2		
	48 - 61	39		
	< 48	4		
CD56	12 - 24	7		
CD16	14 - 37	5		

### Hematology Results

Hematology Parameter	Range	No.
WBC	> 3,463	1
	1,868 - 3,463	26
	< 1,868	0
% Lymphs	> 40	5
	24 - 40	15
	< 24	6
Absolute Lymphs	> 1,368	1
	267 - 1,368	24
	< 267	1

## Donor Number 10 - Donor Status: HIV-antibody Negative

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	91 - 100	53		
	< 91	3		
CD14	> 2	3		
	0 - 2	53		
	< 0	0		
CD4	> 57	6	> 1,163	9
	49 - 57	90	720 - 1,163	56
	< 49	2	< 720	4
CD8	> 13	0	> 380	0
	3 - 13	97	0 - 380	67
	< 3	0	< 0	0
CD19	> 30	0		
	22 - 30	72		
	< 22	2		
CD56+16	> 14	0		
	6 - 14	53		
	< 6	0		
CD3 Average	> 68	3		
	56 - 68	85		
	< 56	1		
CD56	6 - 18	12		
CD16	7 - 14	9		

### Hematology Results

Hematology Parameter	Range	No.
WBC	> 5,704	1
	4,126 - 5,704	55
	< 4,126	0
% Lymphs	> 45	7
	29 - 45	47
	< 29	2
Absolute Lymphs	> 2,377	2
	1,287 - 2,377	54
	< 1,287	1

# Participant Laboratory Results for the March 1998 Shipment

## Donor Number 11 - Donor Status: HIV-antibody Negative

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	92 - 100	56		
	< 92	1		
CD14	> 2	2		
	0 - 2	55		
	< 0	0		
CD4	> 57	3	> 1,266	14
	48 - 57	90	823 - 1,266	48
	< 48	3	< 823	6
CD8	> 24	1	> 623	1
	14 - 24	94	158 - 623	65
	< 14	0	< 158	0
CD19	> 18	1		
	10 - 18	72		
	< 10	1		
CD56+16	> 16	1		
	8 - 16	47		
	< 8	2		
CD3 Average	> 78	1		
	66 - 78	78		
	< 66	1		
CD56	1 - 13	15		
CD16	10 - 15	10		

### Hematology Results

Hematology Parameter	Range	No.
WBC	> 8,295	0
	6,717 - 8,295	53
	< 6,717	2
% Lymphs	> 36	7
	20 - 36	48
	< 20	0
Absolute Lymphs	> 2,686	8
	1,596 - 2,686	44
	< 1,596	4

## Donor Number 12 - Donor Status: HIV-antibody Negative

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	93 - 100	53		
	< 93	2		
CD14	> 3	4		
	0 - 3	51		
	< 0	0		
CD4	> 47	1	> 955	1
	38 - 47	84	512 - 955	58
	< 38	3	< 512	2
CD8	> 30	6	> 659	2
	20 - 30	80	195 - 659	59
	< 20	2	< 195	0
CD19	> 24	2		
	16 - 24	54		
	< 16	6		
CD56+16	> 10	1		
	2 - 10	32		
	< 2	3		
CD3 Average	> 77	4		
	65 - 77	70		
	< 65	2		
CD56	0 - 13	16		
CD16	5 - 22	11		

### Hematology Results

Hematology Parameter	Range	No.
WBC	> 5,945	1
	4,366 - 5,945	51
	< 4,366	0
% Lymphs	> 42	1
	26 - 42	50
	< 26	1
Absolute Lymphs	> 2,286	1
	1,195 - 2,286	50
	< 1,195	1

# Participant Laboratory Results for the March 1998 Shipment

## Donor Number 13 - Donor Status: HIV-antibody Positive

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	92 - 100	27		
	< 92	0		
CD14	> 3	2		
	0 - 3	23		
	< 0	0		
CD4	> 42	3	> 763	1
	33 - 42	39	318 - 763	40
	< 33	1	< 318	1
CD8	> 52	6	> 914	2
	42 - 52	35	448 - 914	39
	< 42	2	< 448	1
CD19	> 12	0		
	3 - 12	33		
	< 3	0		
CD56+16	> 10	1		
	2 - 10	24		
	< 2	0		
CD3 Average	> 92	1		
	79 - 92	40		
	< 79	0		
CD56	2 - 2	4		
CD16	2 - 7	4		

### Hematology Results

Hematology Parameter	Range	No.
WBC	> 7,180	0
	5,593 - 7,180	34
	< 5,593	0
% Lymphs	> 30	1
	15 - 30	32
	< 15	1
Absolute Lymphs	> 2,001	1
	905 - 2,001	33
	< 905	0

## Donor Number 14 - Donor Status: HIV-antibody Positive

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	92 - 100	30		
	< 92	0		
CD14	> 3	2		
	0 - 3	24		
	< 0	0		
CD4	> 42	2	> 1,025	0
	34 - 42	44	578 - 1,025	28
	< 34	2	< 578	0
CD8	> 52	3	> 1,222	2
	42 - 52	42	753 - 1,222	24
	< 42	3	< 753	2
CD19	> 11	0		
	2 - 11	36		
	< 2	0		
CD56+16	> 9	0		
	1 - 9	30		
	< 1	0		
CD3 Average	> 93	0		
	81 - 93	40		
	< 81	0		
CD56	1 - 5	12		
CD16	6 - 6	2		

### Hematology Results

Hematology Parameter	Range	No.
WBC	> 8,396	0
	6,801 - 8,396	26
	< 6,801	0
% Lymphs	> 36	0
	20 - 36	26
	< 20	0
Absolute Lymphs	> 2,678	0
	1,578 - 2,678	26
	< 1,578	0

# Participant Laboratory Results for the March 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	28		
	< 93	2		
CD14	> 2	0		
	0 - 2	28		
	< 0	0		
CD4	> 52	1	> 1,110	0
	43 - 52	44	663 - 1,110	28
	< 43	1	< 663	0
CD8	> 42	2	> 922	0
	31 - 42	44	453 - 922	28
	< 31	0	< 453	0
CD19	> 12	0		
	3 - 12	38		
	< 3	0		
CD56+16	> 10	0		
	1 - 10	28		
	< 1	0		
CD3 Average	> 94	0		
	81 - 94	34		
	< 81	0		
CD56	2 - 95	10		
CD16	1 - 1	2		

### Hematology Results

Hematology Parameter	Range	No.
WBC	> 7,644	0
	6,050 - 7,644	26
	< 6,050	0
% Lymphs	> 35	0
	20 - 35	26
	< 20	0
Absolute Lymphs	> 2,427	0
	1,326 - 2,427	26
	< 1,326	0

## Donor Number 16 - Donor Status: HIV-antibody Positive

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	93 - 100	36		
	< 93	0		
CD14	> 3	1		
	0 - 3	33		
	< 0	0		
CD4	> 38	1	> 1,046	2
	29 - 38	44	600 - 1,046	33
	< 29	3	< 600	1
CD8	> 60	5	> 1,531	5
	50 - 60	40	1,064 - 1,531	30
	< 50	3	< 1,064	1
CD19	> 11	0		
	3 - 11	40		
	< 3	0		
CD56+16	> 7	0		
	0 - 7	24		
	< 0	0		
CD3 Average	> 95	0		
	83 - 95	38		
	< 83	0		
CD56	0 - 2	12		
CD16	2 - 5	2		

### Hematology Results

Hematology Parameter	Range	No.
WBC	> 8,744	0
	7,156 - 8,744	33
	< 7,156	1
% Lymphs	> 38	2
	23 - 38	31
	< 23	1
Absolute Lymphs	> 2,979	2
	1,883 - 2,979	31
	< 1,883	1



# Participant Laboratory Results for the March 1998 Shipment

## Donor Number 17 - Donor Status: HIV-antibody Positive

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	91 - 100	24		
	< 91	8		
CD14	> 2	0		
	0 - 2	32		
	< 0	0		
CD4	> 53	0	> 870	2
	44 - 53	48	423 - 870	27
	< 44	2	< 423	1
CD8	> 25	0	> 522	1
	15 - 25	50	53 - 522	29
	< 15	0	< 53	0
CD19	> 20	0		
	12 - 20	35		
	< 12	1		
CD56+16	> 16	0		
	8 - 16	22		
	< 8	2		
CD3 Average	> 76	0		
	64 - 76	38		
	< 64	2		
CD56	2 - 13	8		
CD16	11 - 13	4		

### Hematology Results

Hematology Parameter	Range	No.
WBC	> 7,527	2
	5,930 - 7,527	22
	< 5,930	0
% Lymphs	> 28	1
	12 - 28	23
	< 12	0
Absolute Lymphs	> 1,834	1
	731 - 1,834	23
	< 731	0

## Donor Number 18 - Donor Status: HIV-antibody Positive

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	93 - 100	32		
	< 93	0		
CD14	> 2	1		
	0 - 2	29		
	< 0	0		
CD4	> 40	0	> 1,238	0
	31 - 40	44	788 - 1,238	20
	< 31	2	< 788	2
CD8	> 58	0	> 1,776	1
	47 - 58	43	1,304 - 1,776	18
	< 47	3	< 1,304	3
CD19	> 8	2		
	0 - 8	36		
	< 0	0		
CD56+16	> 11	3		
	2 - 11	27		
	< 2	0		
CD3 Average	> 95	0		
	82 - 95	40		
	< 82	0		
CD56	5 - 8	6		
CD16	1 - 12	10		

### Hematology Results

Hematology Parameter	Range	No.
WBC	> 14,118	0
	12,517 - 14,118	20
	< 12,517	2
% Lymphs	> 30	1
	14 - 30	21
	< 14	0
Absolute Lymphs	> 3,455	1
	2,349 - 3,455	20
	< 2,349	1

# Participant Laboratory Results for the March 1998 Shipment

## Donor Number 19 - Donor Status: HIV-antibody Positive

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	93 - 100	32		
	< 93	0		
CD14	> 3	0		
	0 - 3	30		
	< 0	0		
CD4	> 7	2	> 248	0
	0 - 7	44	0 - 248	39
	< 0	0	< 0	0
CD8	> 83	1	> 1,010	6
	72 - 83	42	543 - 1,010	33
	< 72	3	< 543	0
CD19	> 15	0		
	7 - 15	35		
	< 7	2		
CD56+16	> 11	0		
	2 - 11	25		
	< 2	0		
CD3 Average	> 88	2		
	75 - 88	37		
	< 75	1		
CD56	4 - 7	8		
CD16	4 - 8	3		

### Hematology Results

Hematology Parameter	Range	No.
WBC	> 5,465	0
	3,878 - 5,465	34
	< 3,878	0
% Lymphs	> 29	4
	14 - 29	30
	< 14	0
Absolute Lymphs	> 1,588	3
	491 - 1,588	31
	< 491	0

## Donor Number 20 - Donor Status: HIV-antibody Positive

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	92 - 100	30		
	< 92	1		
CD14	> 2	2		
	0 - 2	28		
	< 0	0		
CD4	> 11	0	> 408	0
	2 - 11	49	0 - 408	29
	< 2	0	< 0	0
CD8	> 70	2	> 1,902	9
	59 - 70	43	1,434 - 1,902	12
	< 59	4	< 1,434	8
CD19	> 21	0		
	12 - 21	31		
	< 12	5		
CD56+16	> 11	2		
	2 - 11	25		
	< 2	0		
CD3 Average	> 83	5		
	70 - 83	34		
	< 70	1		
CD56	1 - 7	10		
CD16	8 - 12	3		

### Hematology Results

Hematology Parameter	Range	No.
WBC	> 17,005	5
	15,409 - 17,005	15
	< 15,409	5
% Lymphs	> 23	0
	8 - 23	25
	< 8	0
Absolute Lymphs	> 3,045	0
	1,943 - 3,045	23
	< 1,943	2

# Participant Laboratory Results for the March 1998 Shipment

## Donor Number 21 - Donor Status: HIV-antibody Negative

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	92 - 100	30		
	< 92	1		
CD14	> 2	0		
	0 - 2	28		
	< 0	0		
CD4	> 54	0	> 1,361	2
	45 - 54	44	912 - 1,361	21
	< 45	2	< 912	2
CD8	> 23	1	> 672	1
	13 - 23	44	202 - 672	24
	< 13	1	< 202	0
CD19	> 18	2		
	9 - 18	34		
	< 9	2		
CD56+16	> 20	1		
	12 - 20	25		
	< 12	3		
CD3 Average	> 75	1		
	63 - 75	35		
	< 63	1		
CD56	9 - 98	8		
CD16	11 - 19	6		

### Hematology Results

Hematology Parameter	Range	No.
WBC	> 6,598	0
	5,001 - 6,598	24
	< 5,001	0
% Lymphs	> 48	0
	32 - 48	23
	< 32	1
Absolute Lymphs	> 2,858	0
	1,756 - 2,858	24
	< 1,756	0

## Donor Number 22 - Donor Status: HIV-antibody Negative

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	91 - 100	59		
	< 91	3		
CD14	> 3	1		
	0 - 3	56		
	< 0	0		
CD4	> 53	3	> 1,467	6
	44 - 53	80	1,024 - 1,467	56
	< 44	8	< 1,024	2
CD8	> 30	2	> 872	5
	20 - 30	87	407 - 872	57
	< 20	2	< 407	2
CD19	> 14	2		
	5 - 14	70		
	< 5	2		
CD56+16	> 19	5		
	11 - 19	43		
	< 11	5		
CD3 Average	> 80	4		
	67 - 80	68		
	< 67	4		
CD56	10 - 93	16		
CD16	9 - 20	9		

### Hematology Results

Hematology Parameter	Range	No.
WBC	> 15,653	8
	14,075 - 15,653	44
	< 14,075	6
% Lymphs	> 26	1
	10 - 26	57
	< 10	0
Absolute Lymphs	> 3,152	6
	2,063 - 3,152	51
	< 2,063	1

# Participant Laboratory Results for the March 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	62		
	< 93	1		
CD14	> 2	1		
	0 - 2	59		
	< 0	0		
CD4	> 56	1	> 1,712	6
	47 - 56	87	1,269 - 1,712	59
	< 47	7	< 1,269	3
CD8	> 27	3	> 894	2
	17 - 27	91	430 - 894	65
	< 17	1	< 430	1
CD19	> 17	0		
	8 - 17	71		
	< 8	2		
CD56+16	> 13	0		
	4 - 13	52		
	< 4	0		
CD3 Average	> 84	1		
	72 - 84	78		
	< 72	1		
CD56	1 - 9	18		
CD16	6 - 10	6		

### Hematology Results

Hematology Parameter	Range	No.
WBC	> 9,924	0
	8,347 - 9,924	57
	< 8,347	2
% Lymphs	> 40	2
	24 - 40	57
	< 24	0
Absolute Lymphs	> 3,444	4
	2,355 - 3,444	54
	< 2,355	1

## Donor Number 24 - Donor Status: HIV-antibody Negative

Cell Marker	Percentage Results		Absolute Counts	
	Range	No.	Range	No.
CD45	> 100	0		
	92 - 100	59		
	< 92	3		
CD14	> 2	1		
	0 - 2	57		
	< 0	0		
CD4	> 39	5	> 852	1
	30 - 39	85	408 - 852	53
	< 30	5	< 408	0
CD8	> 29	1	> 674	0
	18 - 29	92	209 - 674	54
	< 18	2	< 209	0
CD19	> 24	5		
	16 - 24	65		
	< 16	3		
CD56+16	> 15	1		
	7 - 15	52		
	< 7	3		
CD3 Average	> 74	2		
	62 - 74	70		
	< 62	5		
CD56	2 - 96	18		
CD16	6 - 16	9		

### Hematology Results

Hematology Parameter	Range	No.
WBC	> 6,521	0
	4,941 - 6,521	49
	< 4,941	0
% Lymphs	> 40	3
	24 - 40	46
	< 24	0
Absolute Lymphs	> 2,376	2
	1,285 - 2,376	47
	< 1,285	0