

**Centers for Disease Control and Prevention  
Model Performance Evaluation Program  
Human T-Lymphotropic Virus Types I and II  
(HTLV-I/II) Testing**

**Figures Used to Summarize the  
Participant Laboratory Results  
for the November 3, 1997 Shipment**



**U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES**

**Public Health Service**

**Centers for Disease Control and Prevention**

**Public Health Practice Program Office**

**Division of Laboratory Systems**

**Atlanta, Georgia 30333**



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Public Health Service or by the U.S. Department of Health and Human Services.**

**Report of the November 3, 1997 Human T-lymphotropic virus types I and II (HTLV-I/II) Performance Evaluation Sample Testing Results Provided by Participant Laboratories in the Model Performance Evaluation Program, Centers for Disease Control and Prevention (CDC).**

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**Centers for Disease Control and Prevention (CDC)  
Model Performance Evaluation Program  
Human T-Lymphotropic Virus Types I and II (HTLV-I/II) Testing  
November 3, 1997 Participant Laboratory Shipment**

**Table 1**

Panel Letter	Vial Label	CDC Donor Number	CDC Contractor Result <sup>2</sup>	Laboratory Interpretation <sup>1</sup>			
				INIT. <sup>3</sup>	FINAL <sup>4</sup>	WB	IIF
E	E1,E3	13	Negative	—	—	—	—
	E4	09	Negative	—	—	—	—
	E5	05	Positive	—	—	—	—
	E2,E6	01	Positive	—	—	—	—
F	F5	10	Negative	—	—	—	—
	F2,F4	14	Negative	—	—	—	—
	F6	06	Positive	—	—	—	—
	F1,F3	02	Positive	—	—	—	—
G	G1	07	Positive	—	—	—	—
	G6	11	Negative	—	—	—	—
	G3,G5	15	Negative	—	—	—	—
	G2,G4	03	Positive	—	—	—	—
H	H3,H5	04	Positive	—	—	—	—
	H2	08	Positive	—	—	—	—
	H1	12	Negative	—	—	—	—
	H4,H6	16	Negative	—	—	—	—

<sup>1</sup> Laboratory Interpretation space (to be completed by participant laboratory) provided to facilitate comparison of participant laboratory result with CDC result.

<sup>2</sup> The CDC result was obtained after composite EIA, WB, and RIPA testing, by CDC contractor, and employing the interpretation criteria of the Public Health Service Working Group.

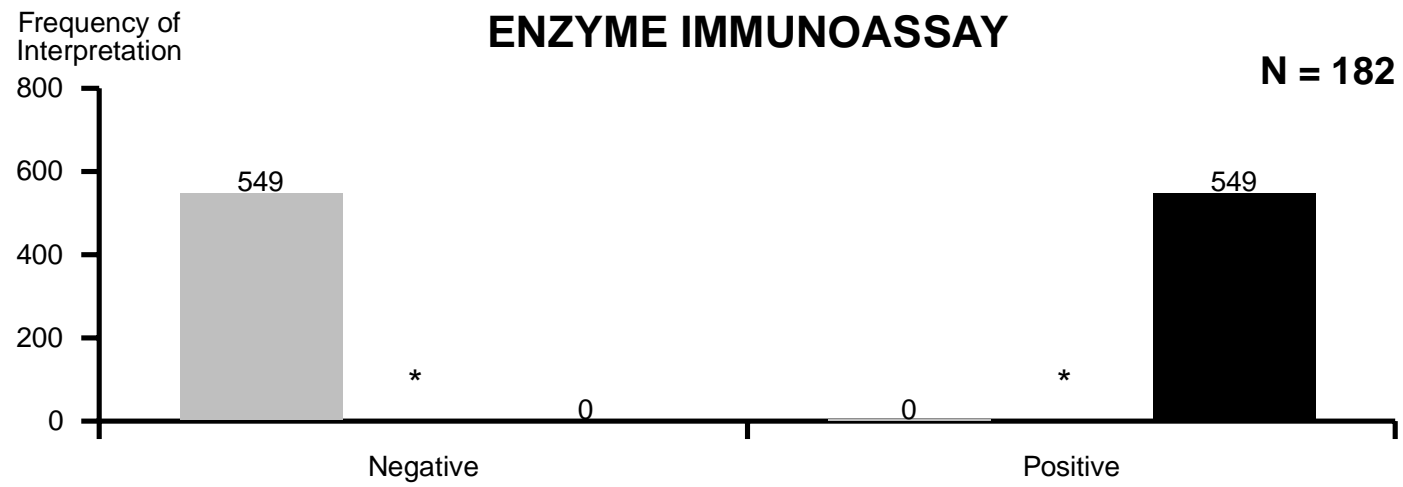
<sup>3</sup> Initial EIA interpretation

<sup>4</sup> Final EIA interpretation

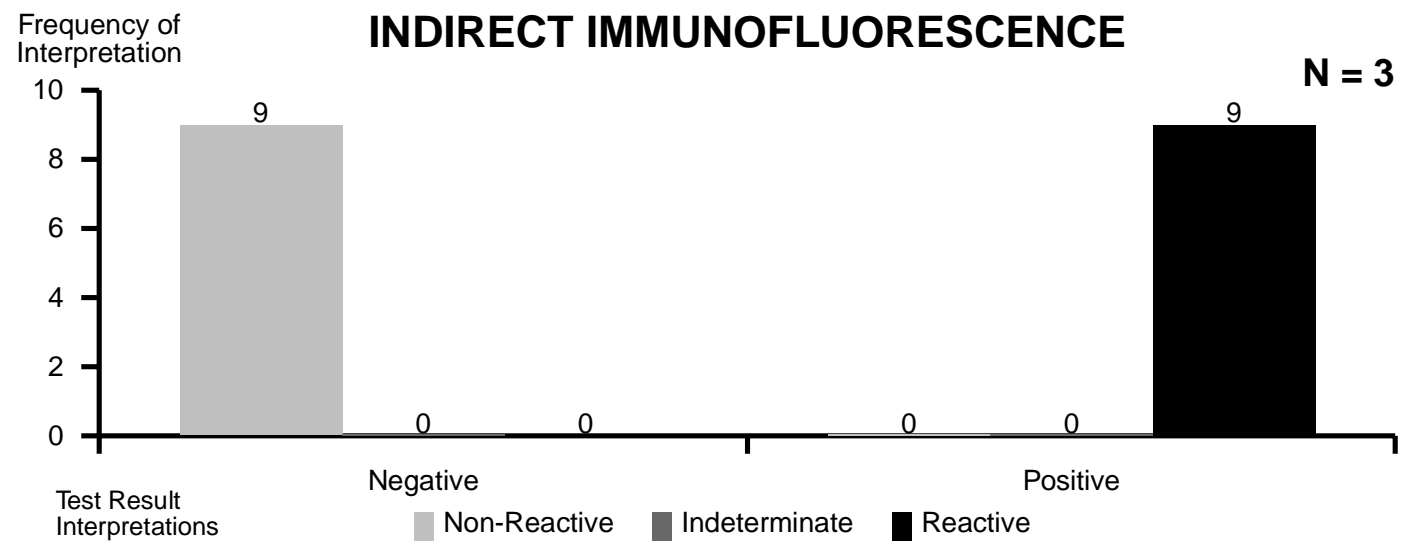
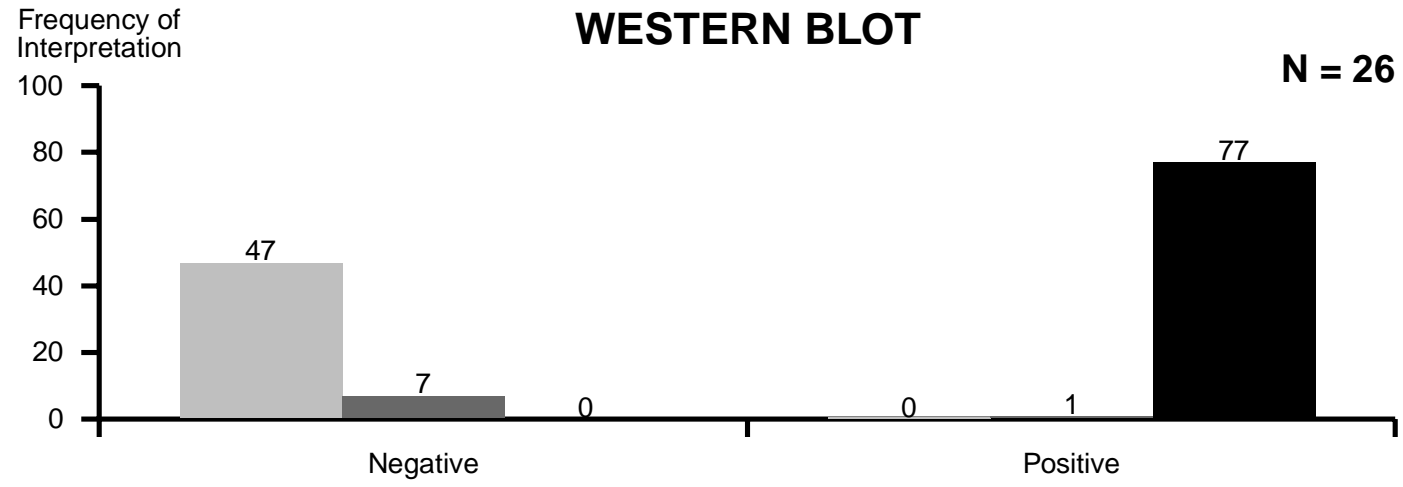
## **SUPPLEMENTAL INFORMATION FOR COMPREHENDING THE NUMBERS USED TO LABEL FIGURES IN THIS REPORT**

The "N=" that appears on each graph represents the number of laboratories that reported results. For some graphs, laboratories reported results using more than one test; therefore, the number of results may exceed the actual number of laboratories providing reports. In figures 1-7 and 10, the vertical axis is labeled either as frequency or percentage of results; in figures 8 and 9, this axis is labeled as percentage of reports. However, in all figures, the number appearing directly above or within each bar represents a frequency of results only.

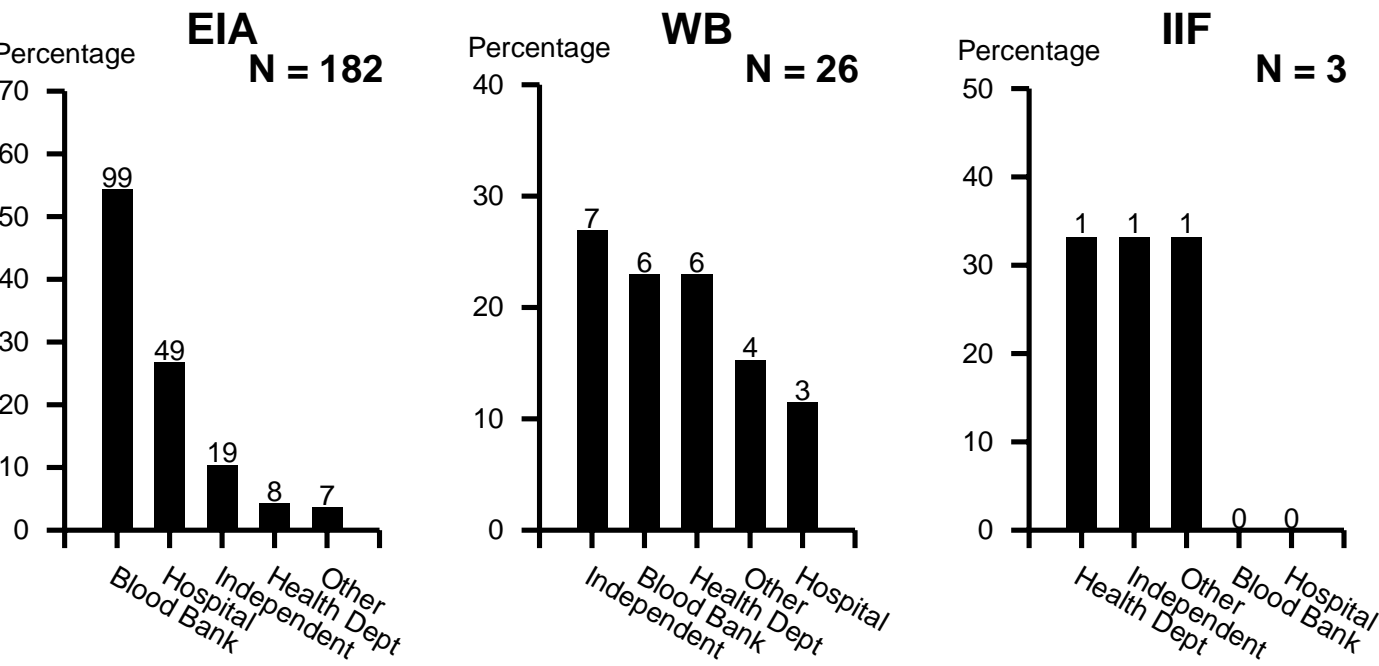
**Figure 1. Frequency of HTLV-I/II antibody test result interpretations, by sample type (reactivity), for enzyme immunoassay (EIA), Western blot (WB), and indirect immunofluorescence (IIF), reported by participant laboratories for the November 3, 1997 shipment**



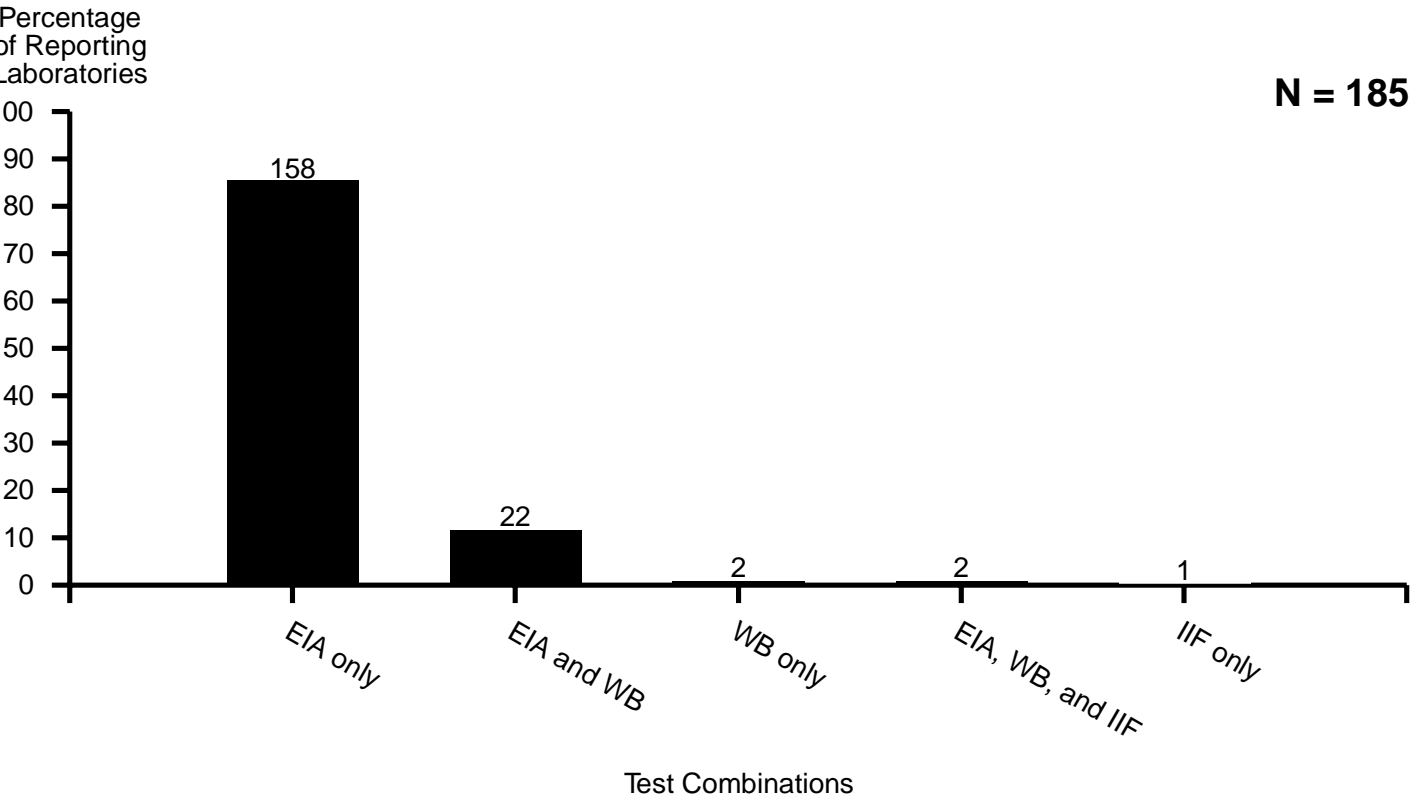
\* = Indeterminate is not an EIA interpretation option; these areas have been left blank



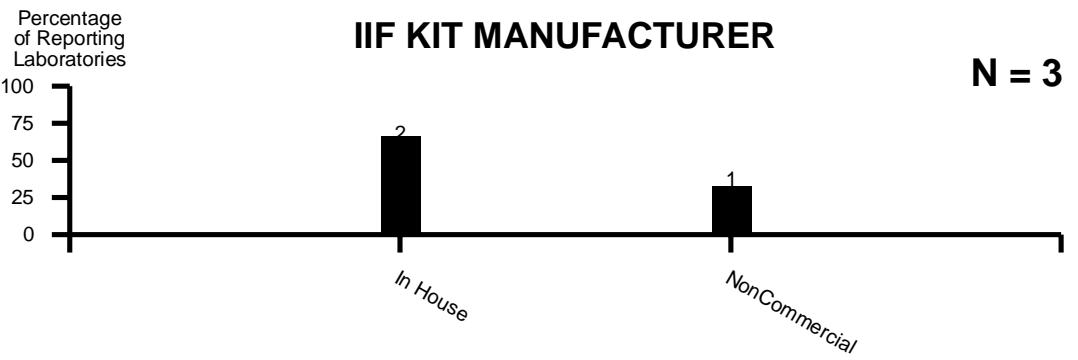
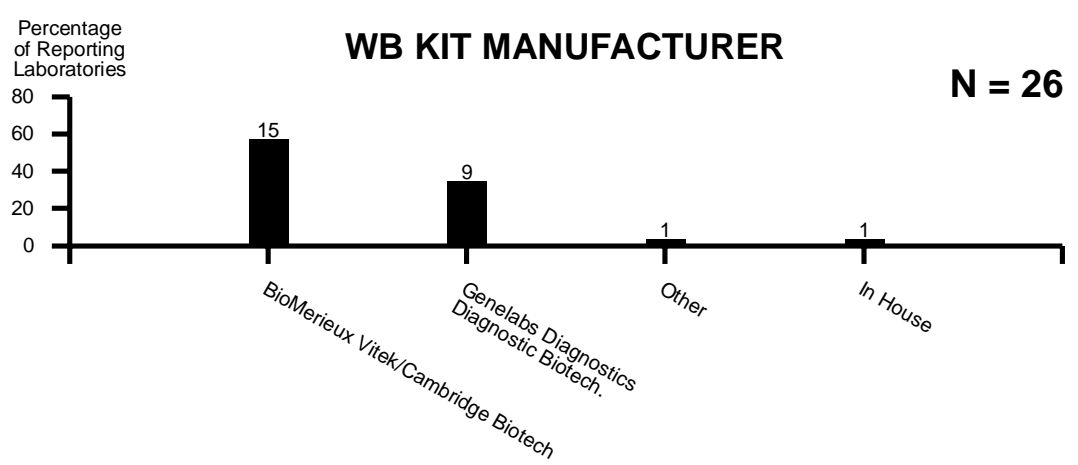
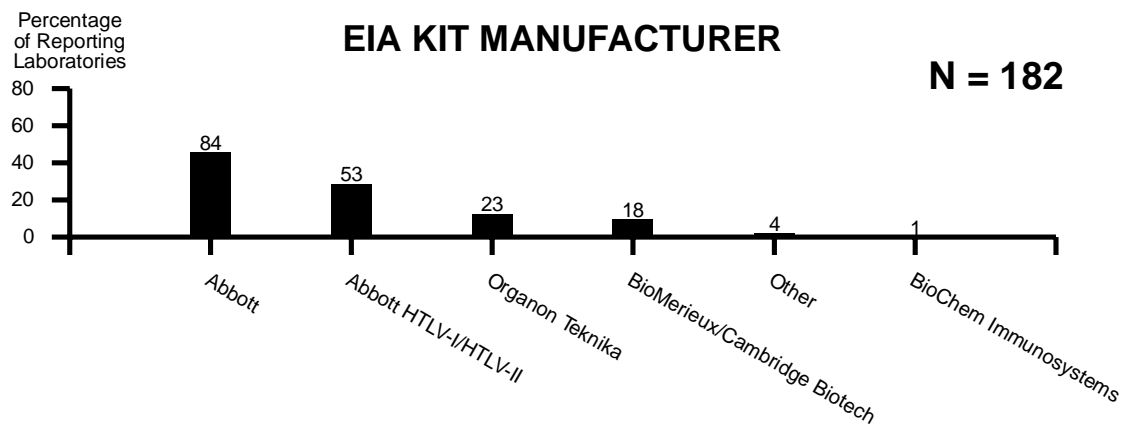
**Figure 2. Percentage of HTLV-I/II participant laboratories, by laboratory type, that reported EIA, WB, and IIF results to the CDC for the November 3, 1997 shipment**



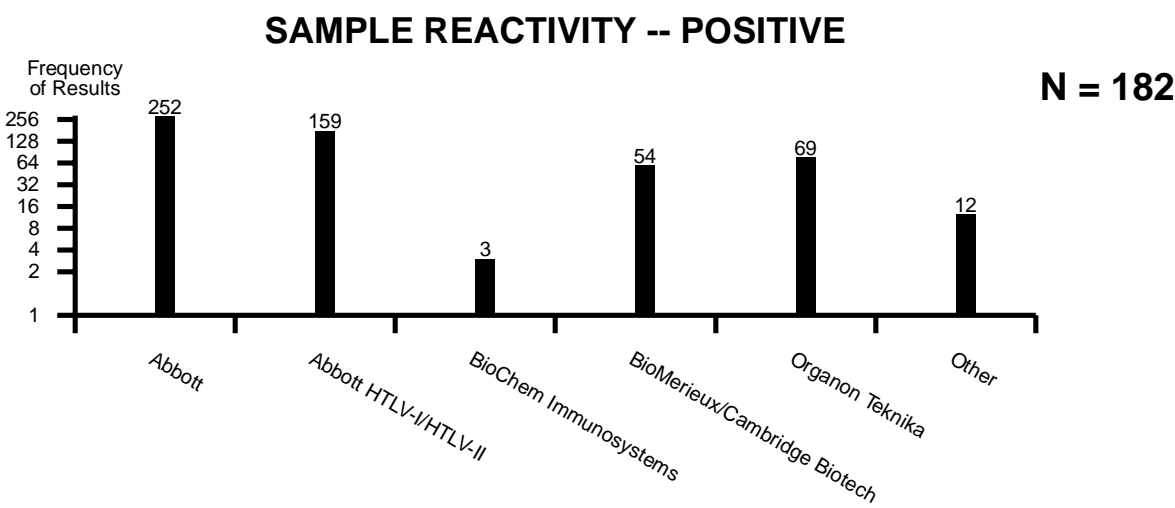
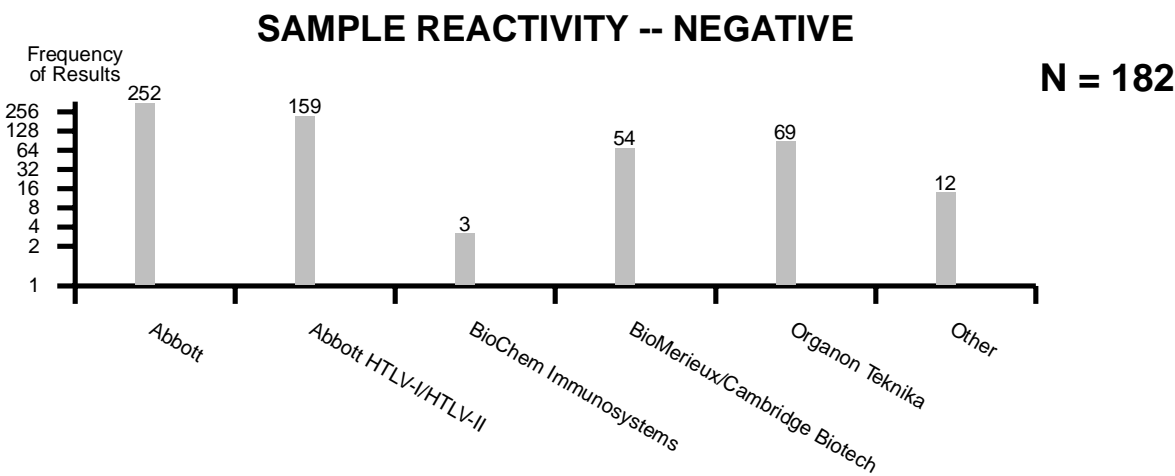
**Figure 3. Combination of HTLV-I/II antibody tests reported by participant laboratories for the November 3, 1997 shipment**



**Figure 4. Types of HTLV-I/II antibody test kits used for enzyme immunoassay, Western blot, and indirect immunofluorescence, as reported by participant laboratories to the CDC for the November 3, 1997 shipment**



**Figure 5. Enzyme immunoassay HTLV-I/II antibody test results, by kit manufacturer, reported by participant laboratories for the November 3, 1997 shipment**



Test Result Interpretations

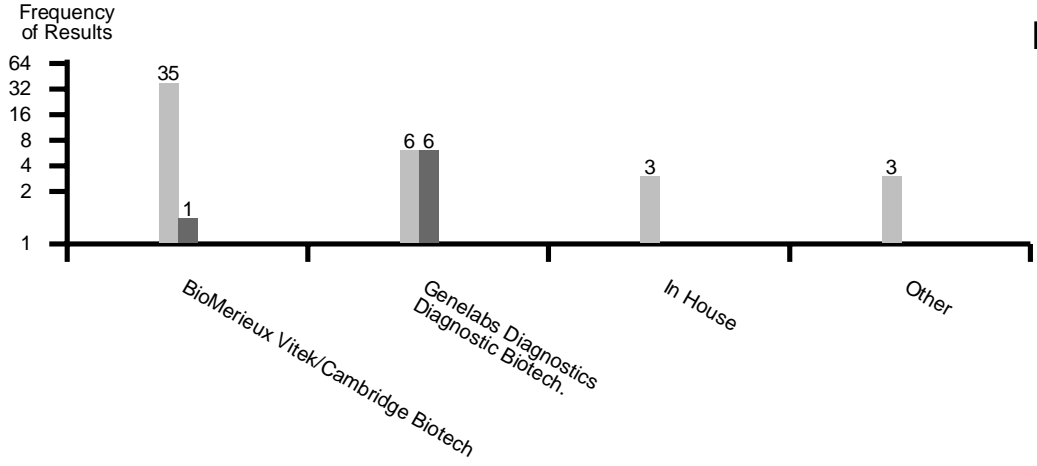
■ Non-Reactive   ■ Reactive



**Figure 6. Western blot HTLV-I/II antibody test results, by kit manufacturer, reported by participant laboratories for the November 3, 1997 shipment**

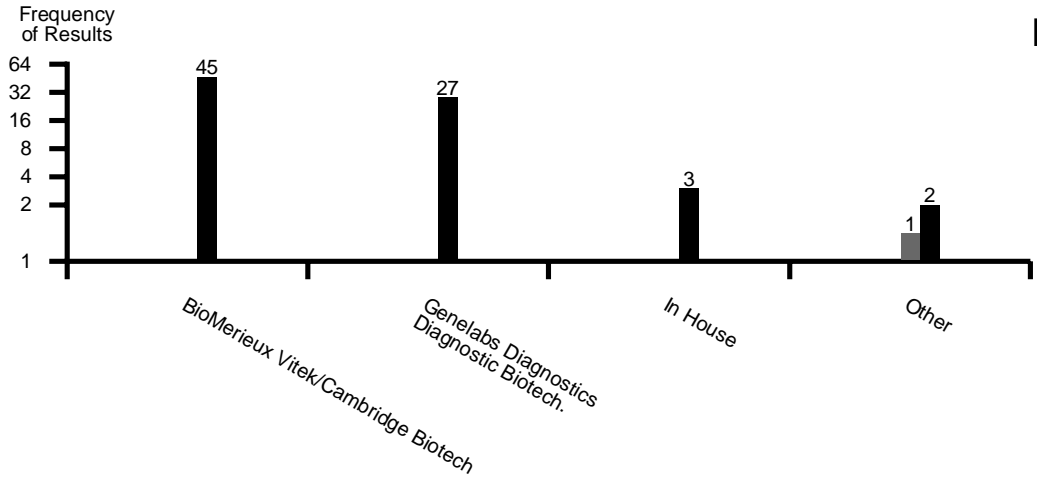
**SAMPLE REACTIVITY -- NEGATIVE**

**N = 18**



**SAMPLE REACTIVITY -- POSITIVE**

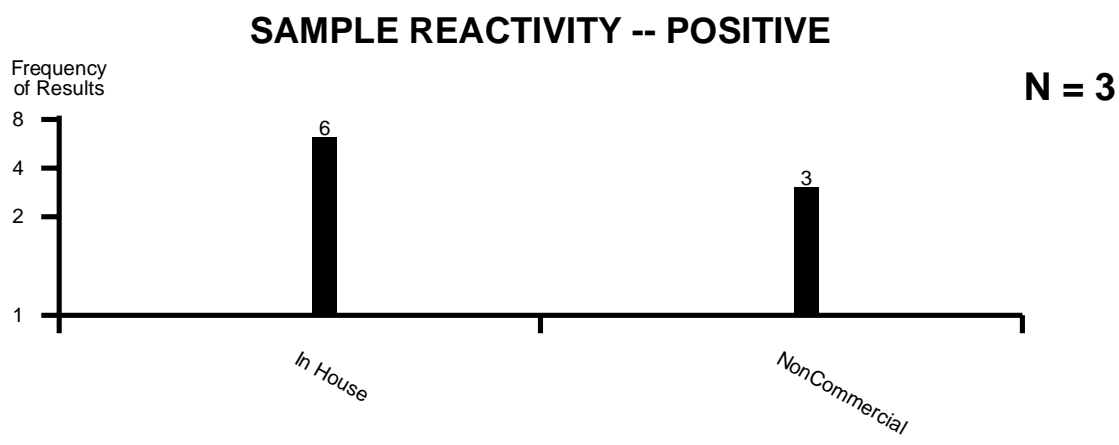
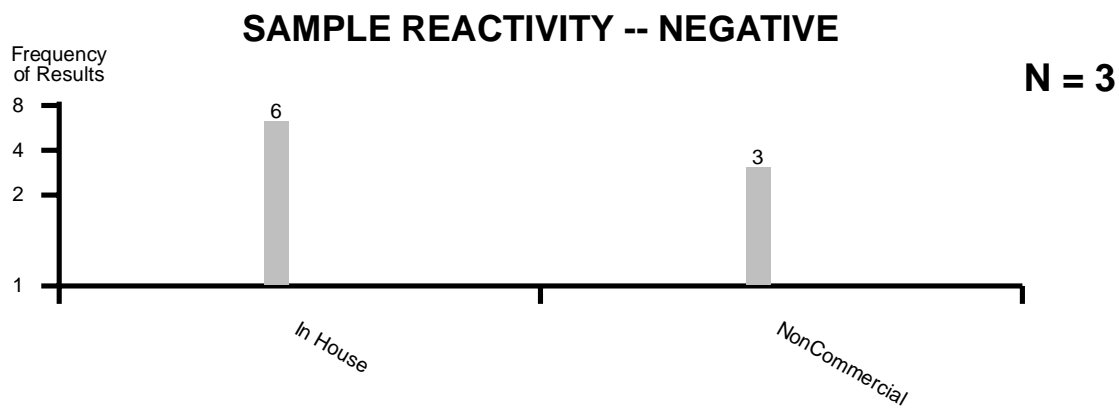
**N = 26**



Test Result Interpretations

- Non-Reactive
- Indeterminate
- Reactive

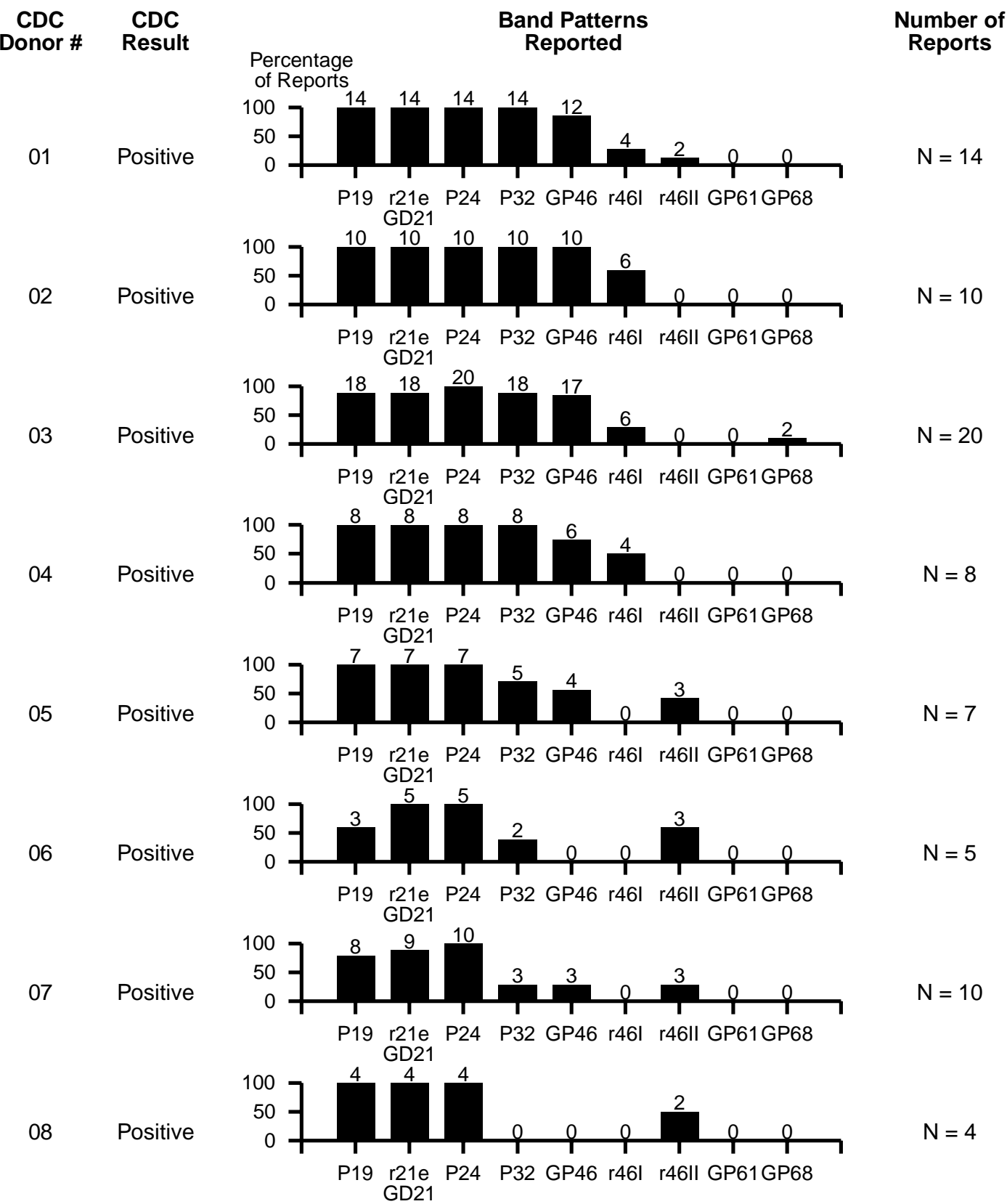
**Figure 7. Indirect immunofluorescence HTLV-I/II antibody test results, by kit manufacturer, reported by participant laboratories for the November 3, 1997 shipment**



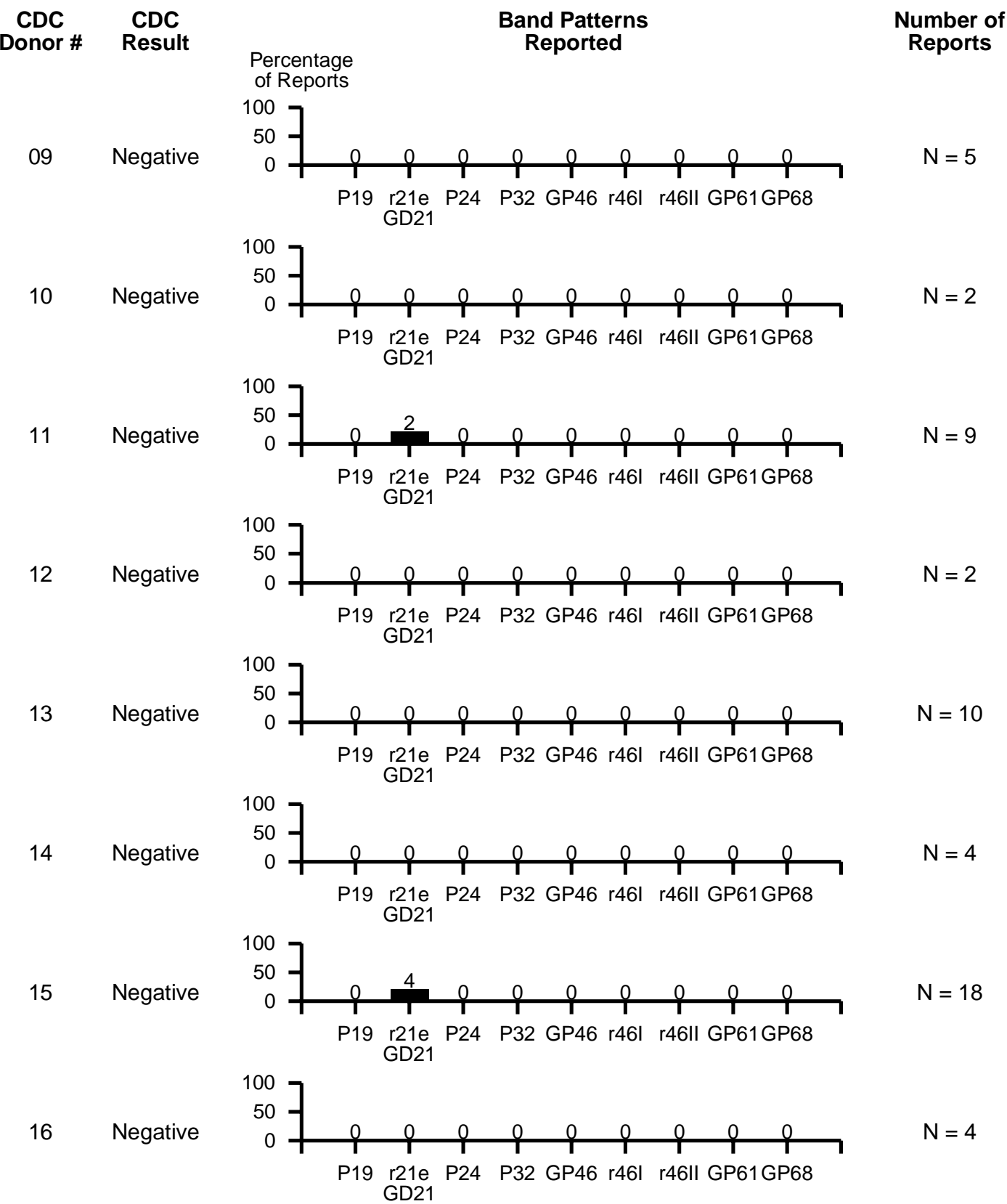
Test Result Interpretations

- Non-Reactive
- Indeterminate
- Reactive

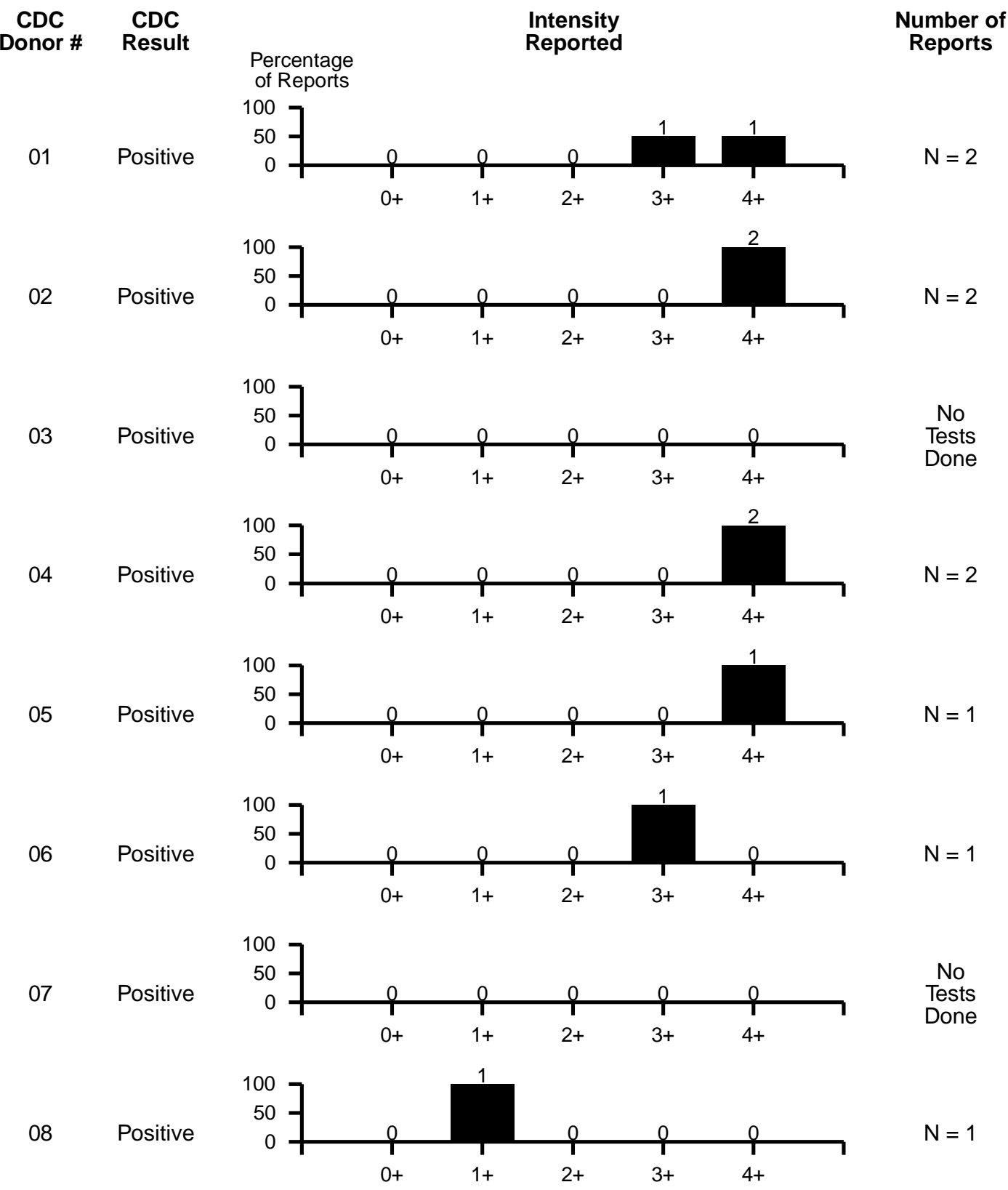
**Figure 8. Western blot HTLV-I/II antibody band patterns reported to CDC by participant laboratories for the November 3, 1997 shipment**



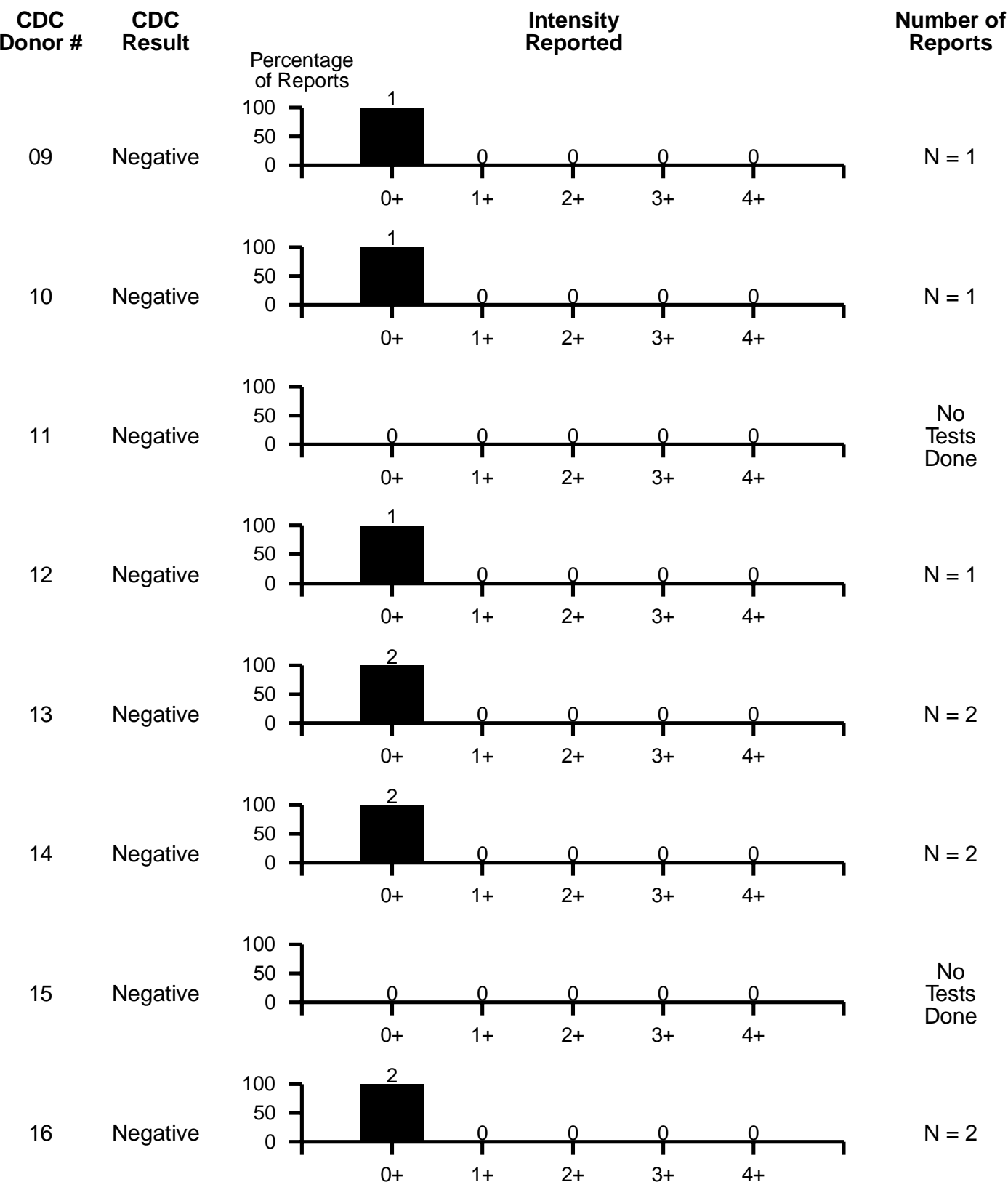
**Figure 8. Western blot HTLV-I/II antibody band patterns reported to CDC by participant laboratories for the November 3, 1997 shipment**



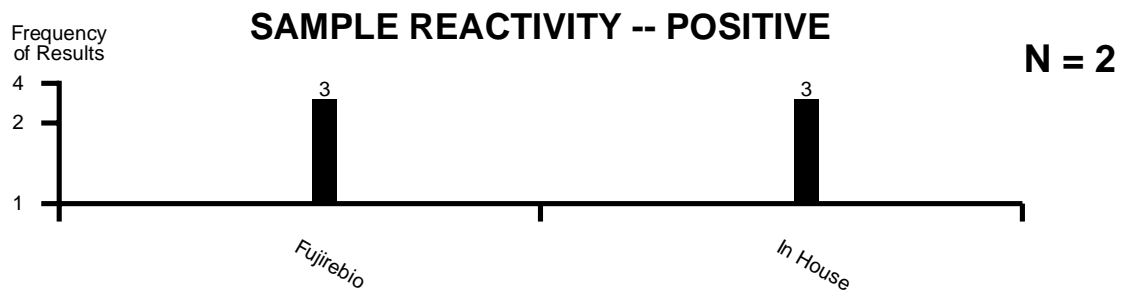
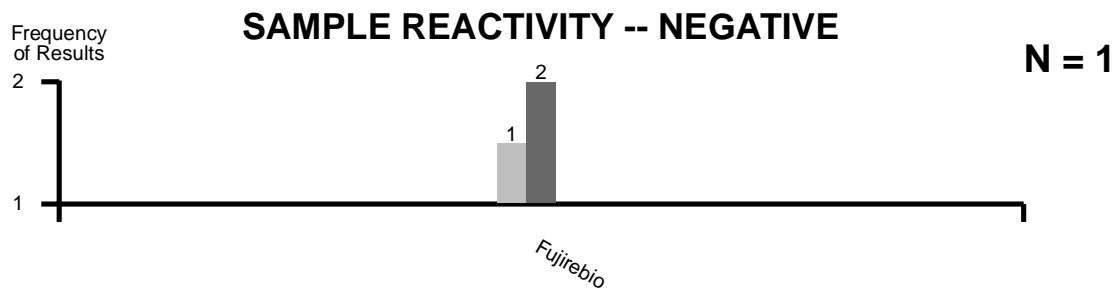
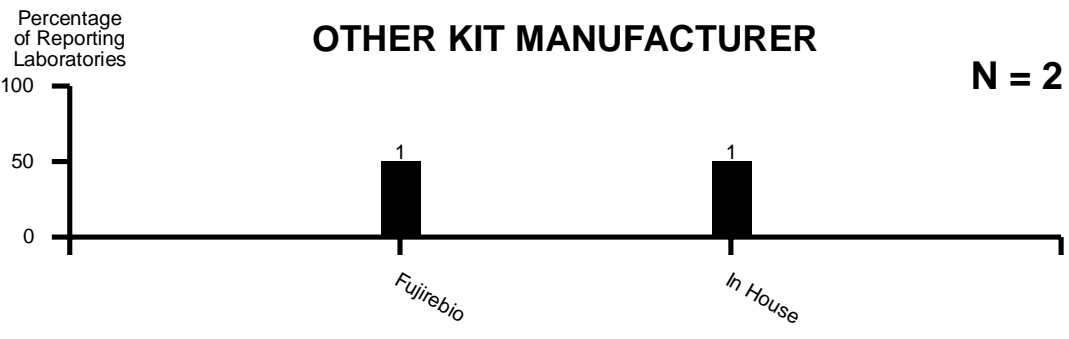
**Figure 9. Fluorescence intensity patterns, of HTLV-I/II-infected cells, for IIF results reported to CDC by participant laboratories for the November 3, 1997 shipment**



**Figure 9. Fluorescence intensity patterns, of HTLV-I/II-infected cells, for IIF results reported to CDC by participant laboratories for the November 3, 1997 shipment**



**Figure 10. Types of 'Other' HTLV antibody test kits used and results reported by participant laboratories to the CDC for the November 3, 1997 shipment**



Test Result Interpretations

- Non-Reactive
- Indeterminate
- Reactive