

**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 15, 1999 Shipment**

**U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES  
Centers for Disease Control and Prevention  
Public Health Practice Program Office  
Division of Laboratory Systems  
Atlanta, Georgia 30341-3717**



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

**Report of the November 15, 1999 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 1999 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
<b>A</b>	<b>A1</b>	<b>1</b>	<b>Negative</b>	—	—	—	—
	<b>A2,A6</b>	<b>4</b>	<b>Negative</b>	—	—	—	—
	<b>A3,A5</b>	<b>3</b>	<b>Positive, HTLV-I</b>	—	—	—	—
	<b>A4</b>	<b>2</b>	<b>Positive, HTLV-II</b>	—	—	—	—
<b>B</b>	<b>B1,B3</b>	<b>4</b>	<b>Negative</b>	—	—	—	—
	<b>B2</b>	<b>1</b>	<b>Negative</b>	—	—	—	—
	<b>B4,B6</b>	<b>3</b>	<b>Positive, HTLV-I</b>	—	—	—	—
	<b>B5</b>	<b>2</b>	<b>Positive, HTLV-II</b>	—	—	—	—

<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.

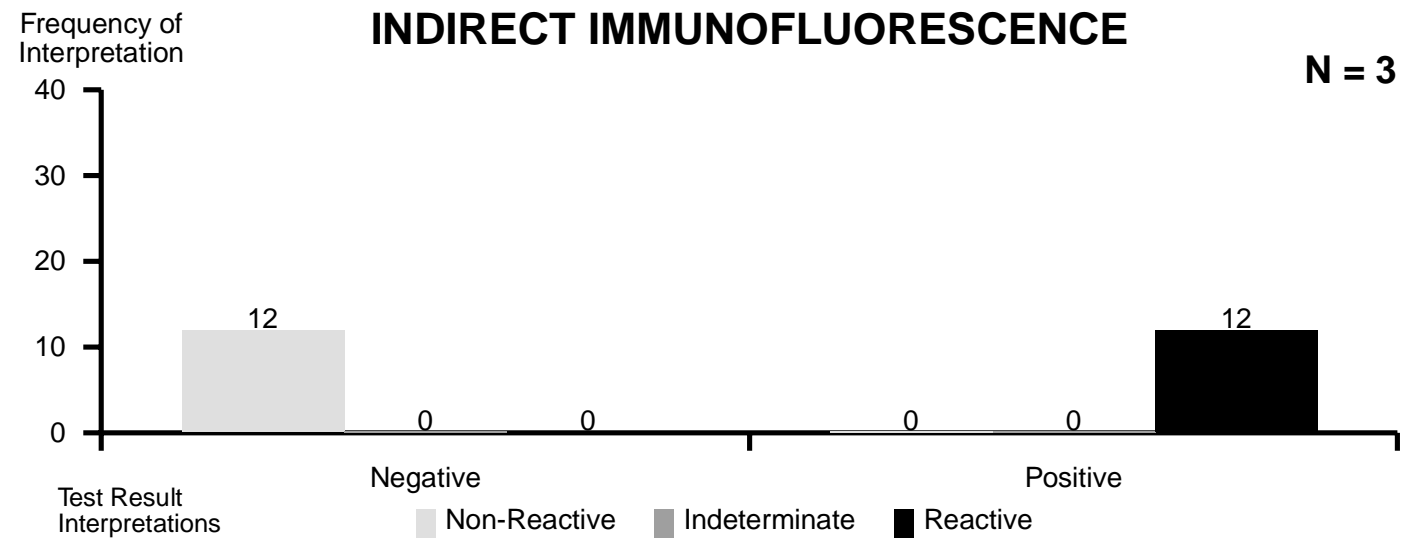
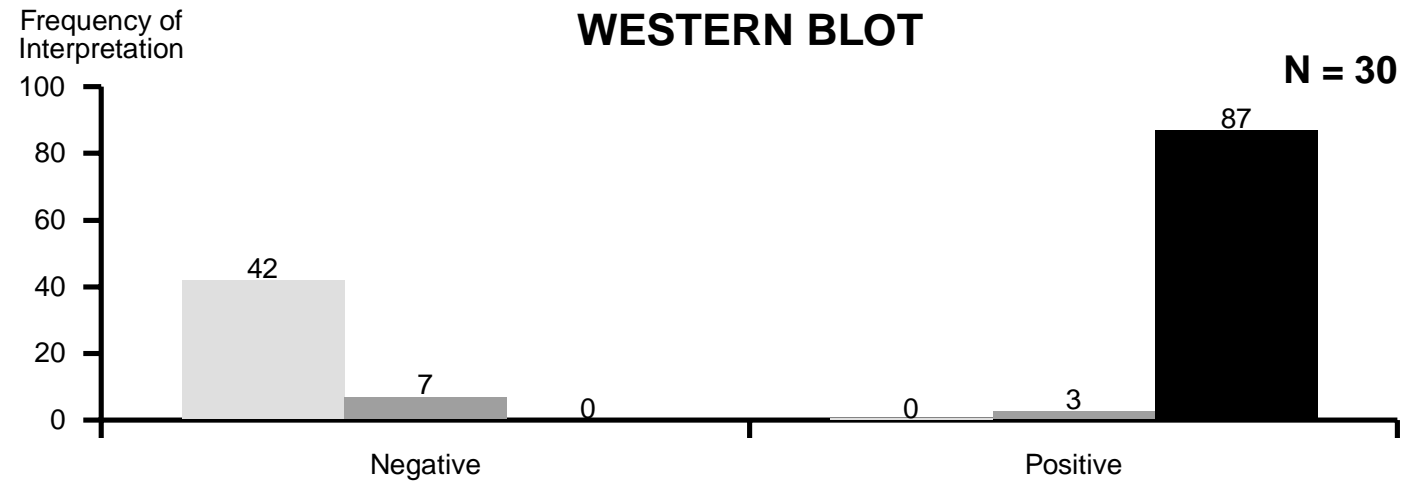
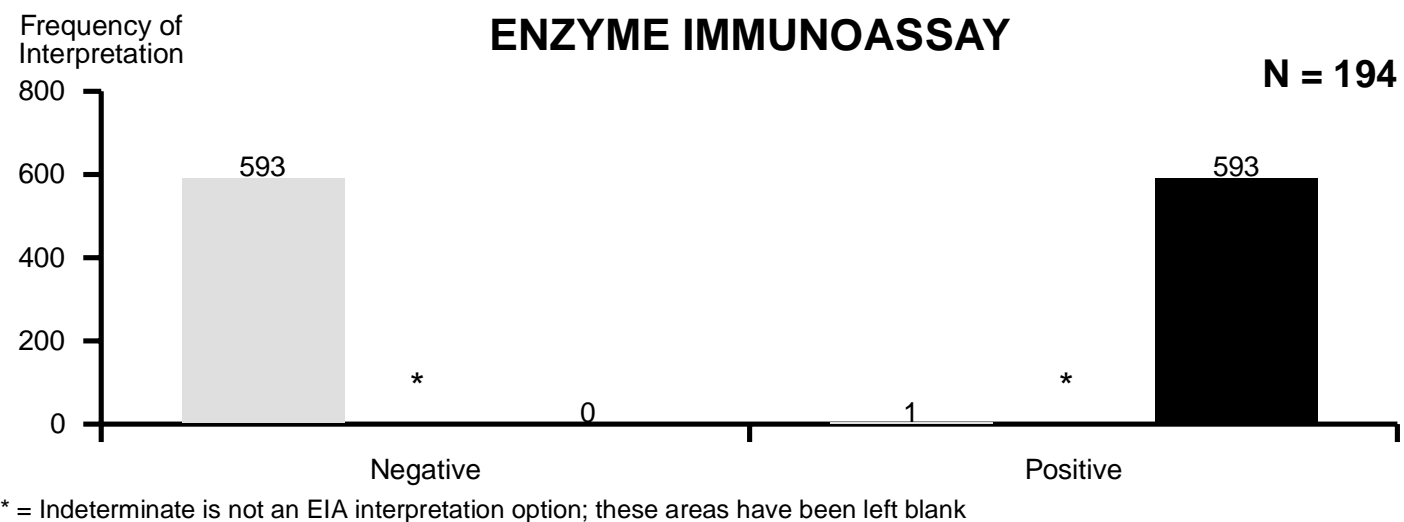
<sup>3</sup> Initial EIA interpretation

<sup>4</sup> Final EIA interpretation

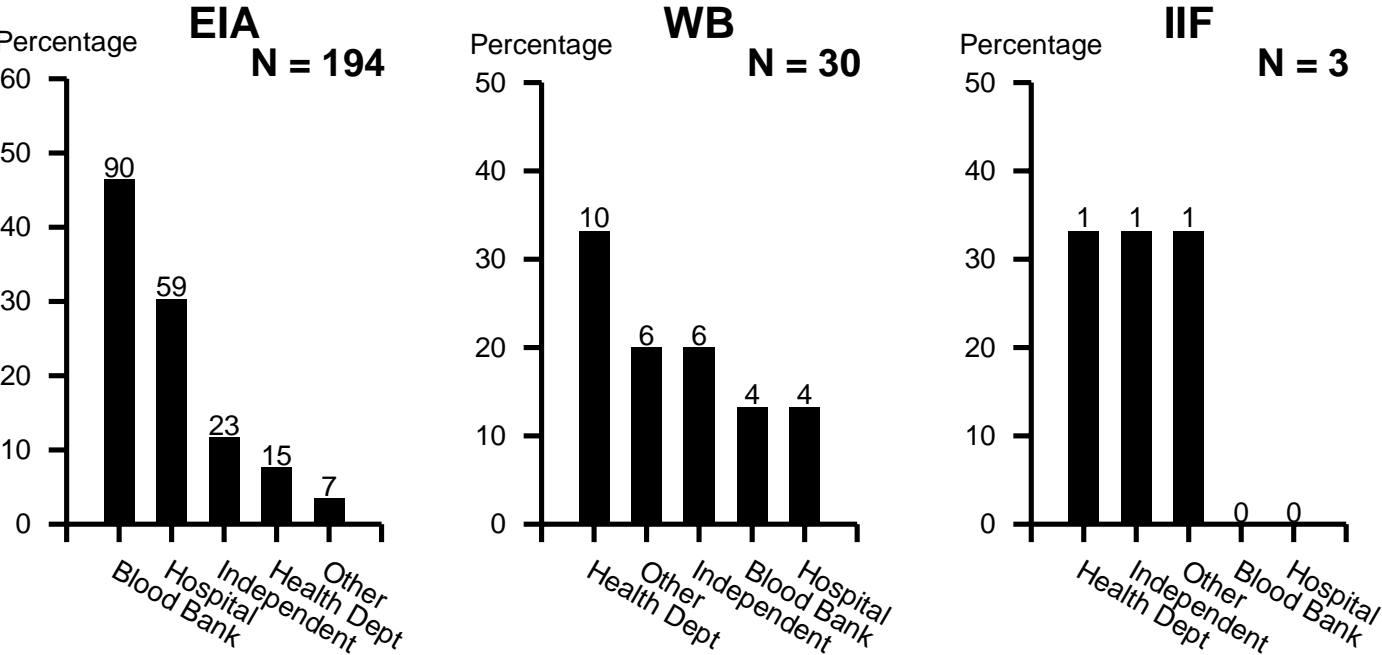
## **SUPPLEMENTAL INFORMATION FOR COMPREHENDING THE NUMBERS USED TO LABEL FIGURES IN THIS REPORT**

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.

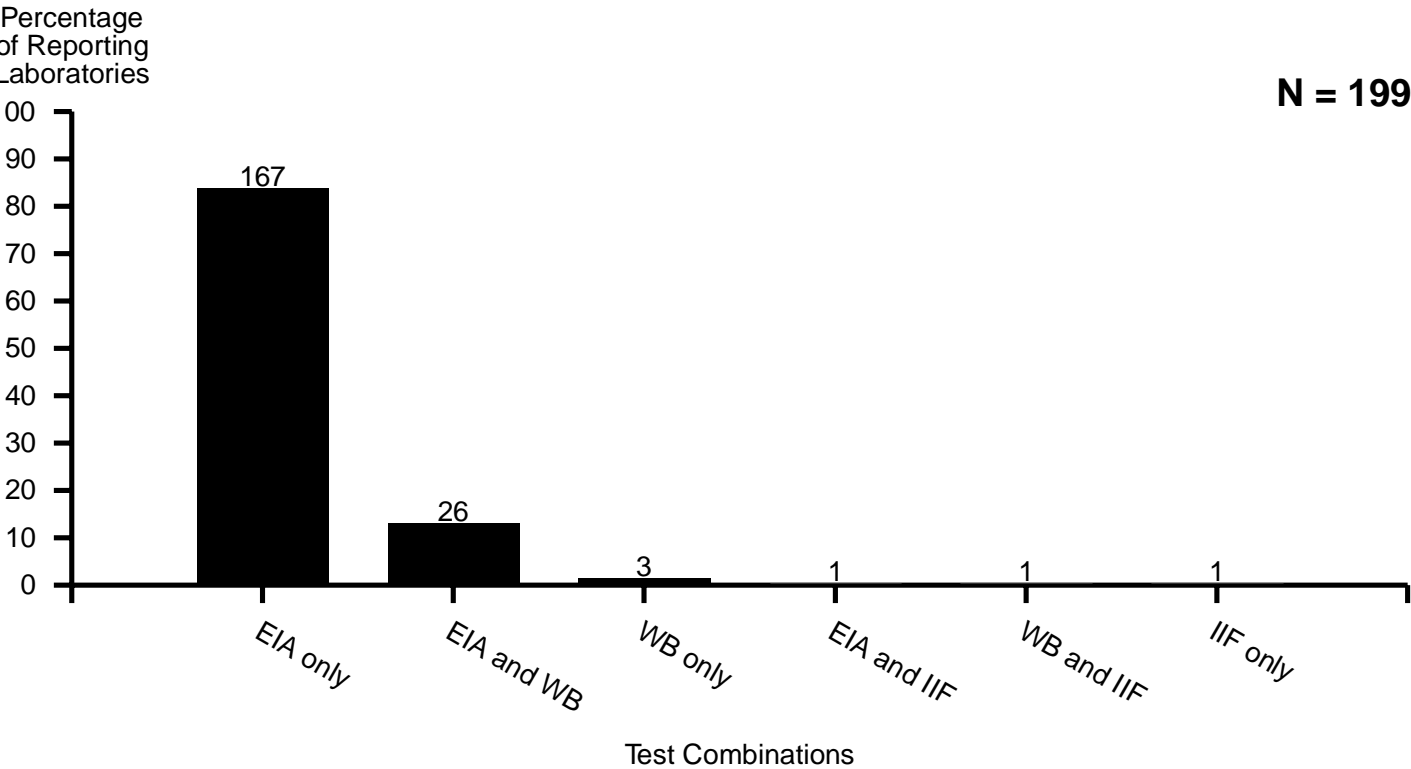
**Figure 1. Frequency of HTLV-I/II antibody test result interpretations, by sample type (reactivity), for enzyme immunoassay (EIA), Western blot (WB), and indirect immunofluorescence (IIF), reported by participant laboratories for the November 15, 1999 shipment**



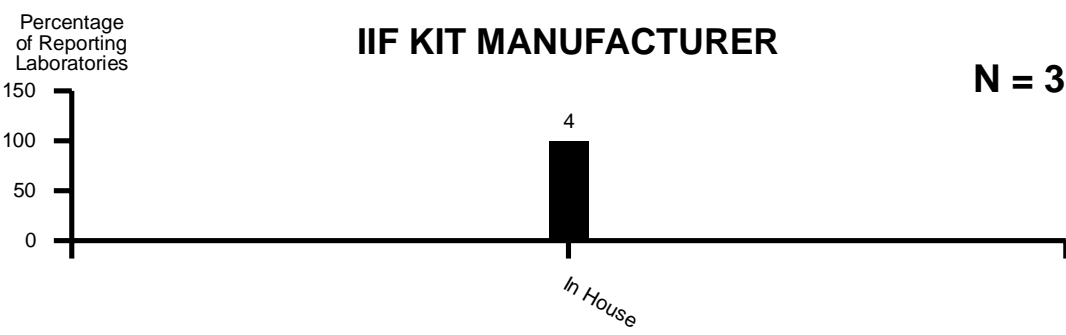
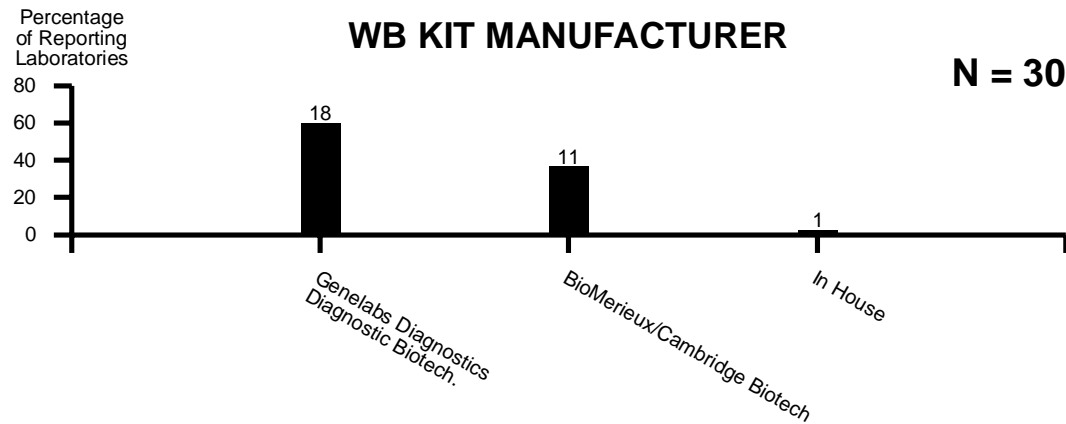
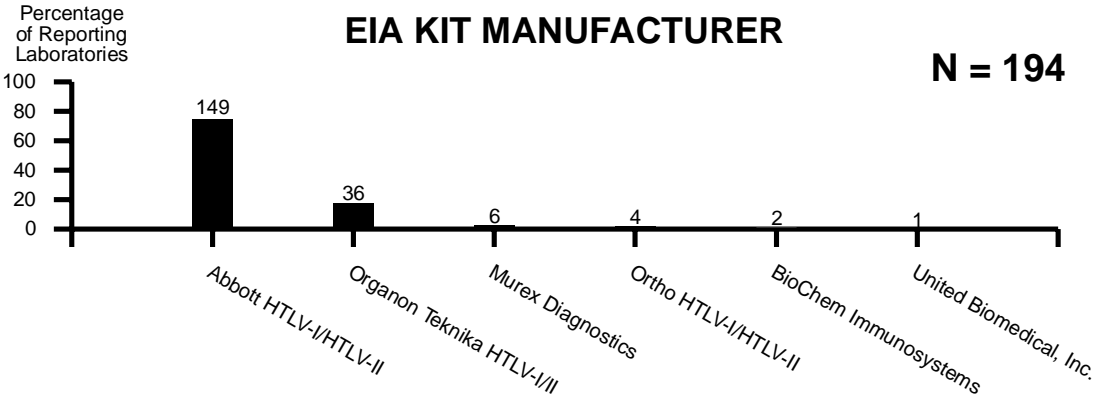
**Figure 2. Percentage of HTLV-I/II participant laboratories, by laboratory type, that reported EIA, WB, and IIF results to the CDC for the November 15, 1999 shipment**



**Figure 3. Combination of HTLV-I/II antibody tests reported by participant laboratories for the November 15, 1999 shipment**



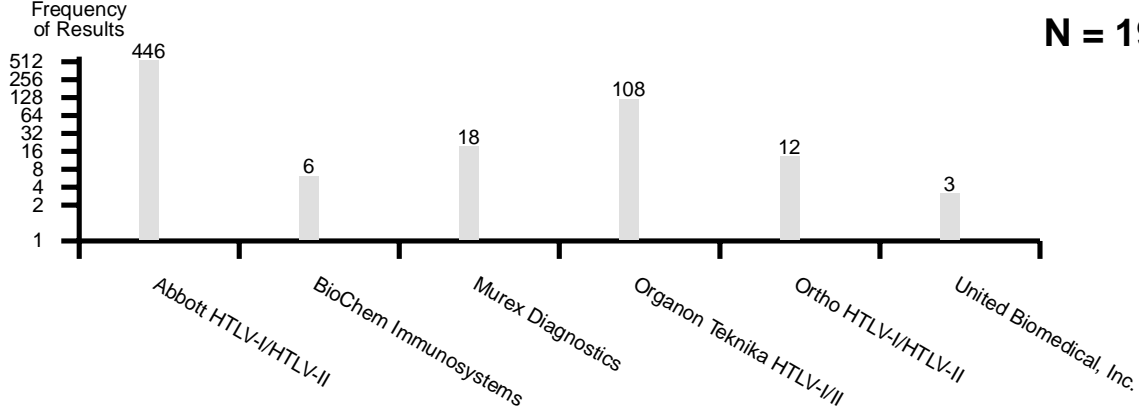
**Figure 4. Types of HTLV-I/II antibody test kits used for enzyme immunoassay, Western blot, and indirect immunofluorescence, as reported by participant laboratories to the CDC for the November 15, 1999 shipment**



**Figure 5. Enzyme immunoassay HTLV-I/II antibody test results, by kit manufacturer, reported by participant laboratories for the November 15, 1999 shipment**

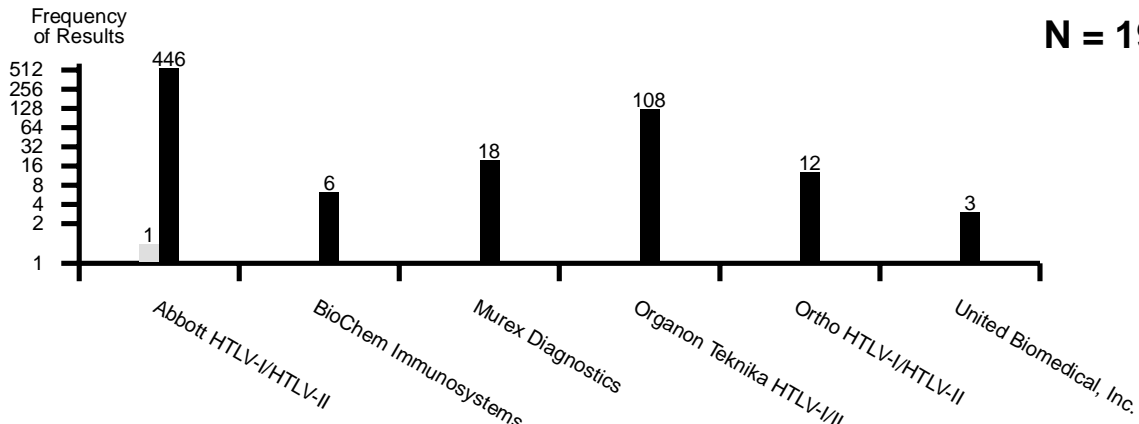
**SAMPLE REACTIVITY -- NEGATIVE**

**N = 194**



**SAMPLE REACTIVITY -- POSITIVE**

**N = 194**

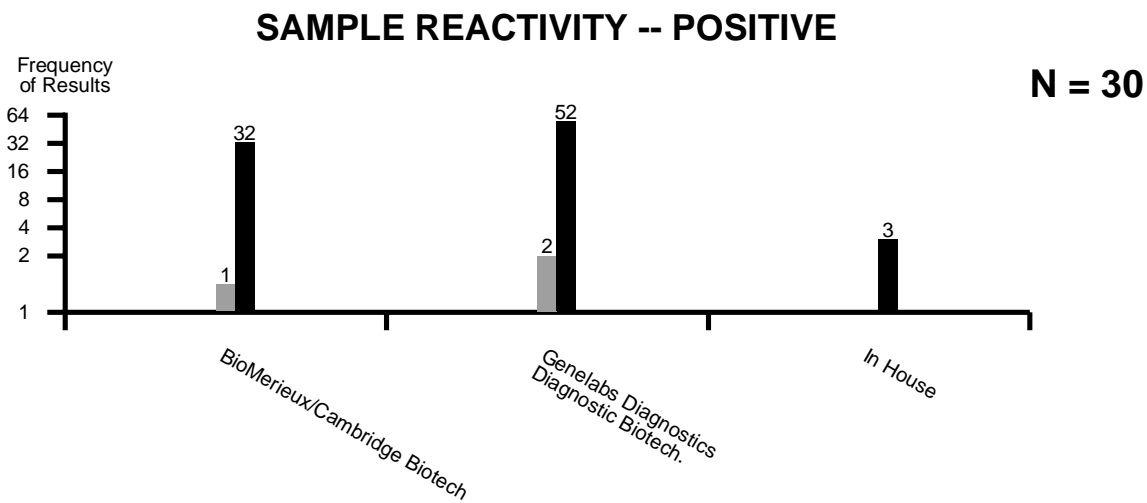
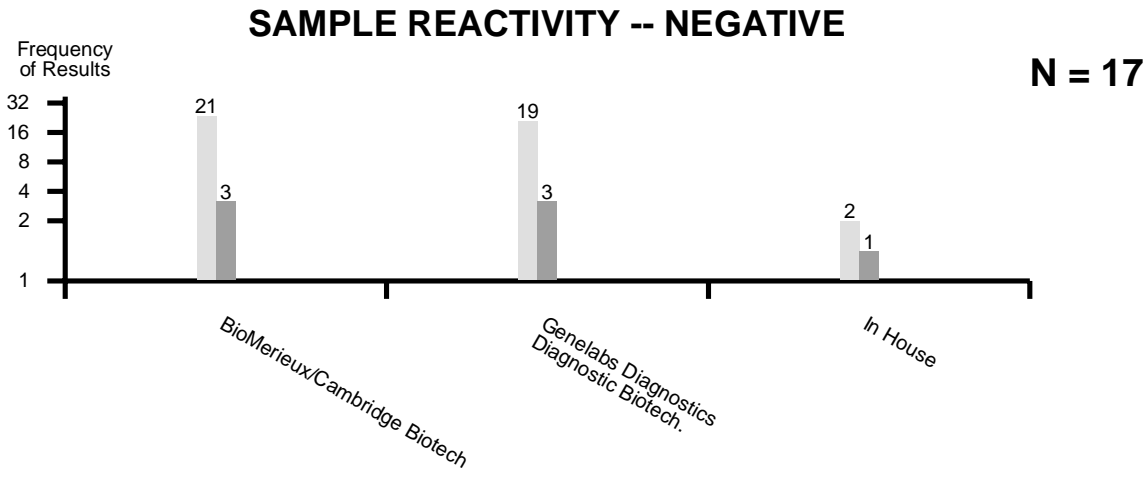


Test Result Interpretations

■ Non-Reactive ■ Reactive



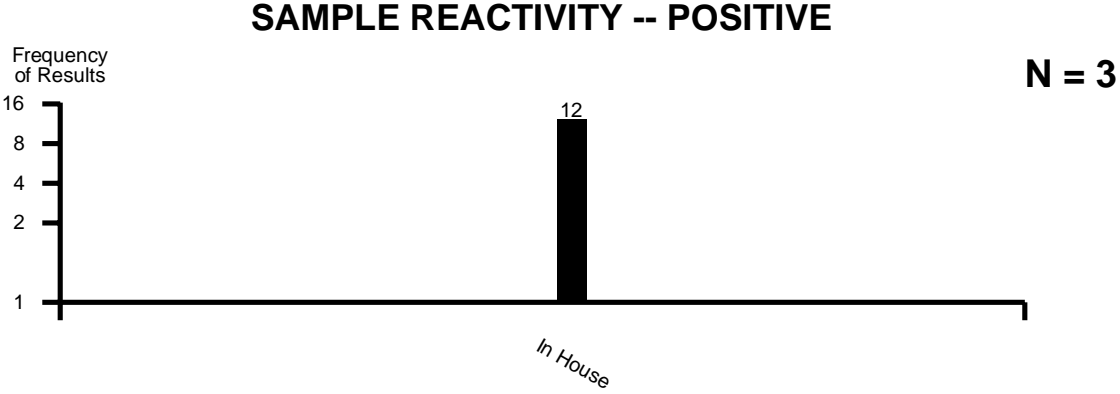
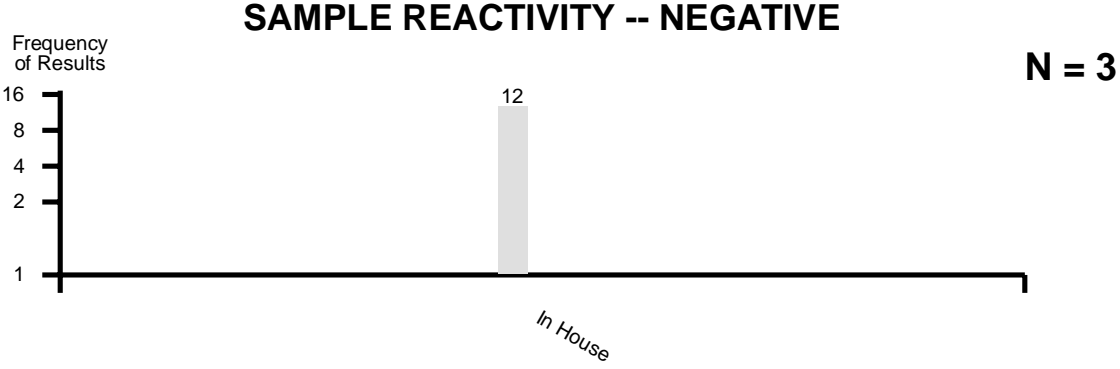
**Figure 6. Western blot HTLV-I/II antibody test results, by kit manufacturer, reported by participant laboratories for the November 15, 1999 shipment**



Test Result Interpretations

Non-Reactive
  Indeterminate
  Reactive

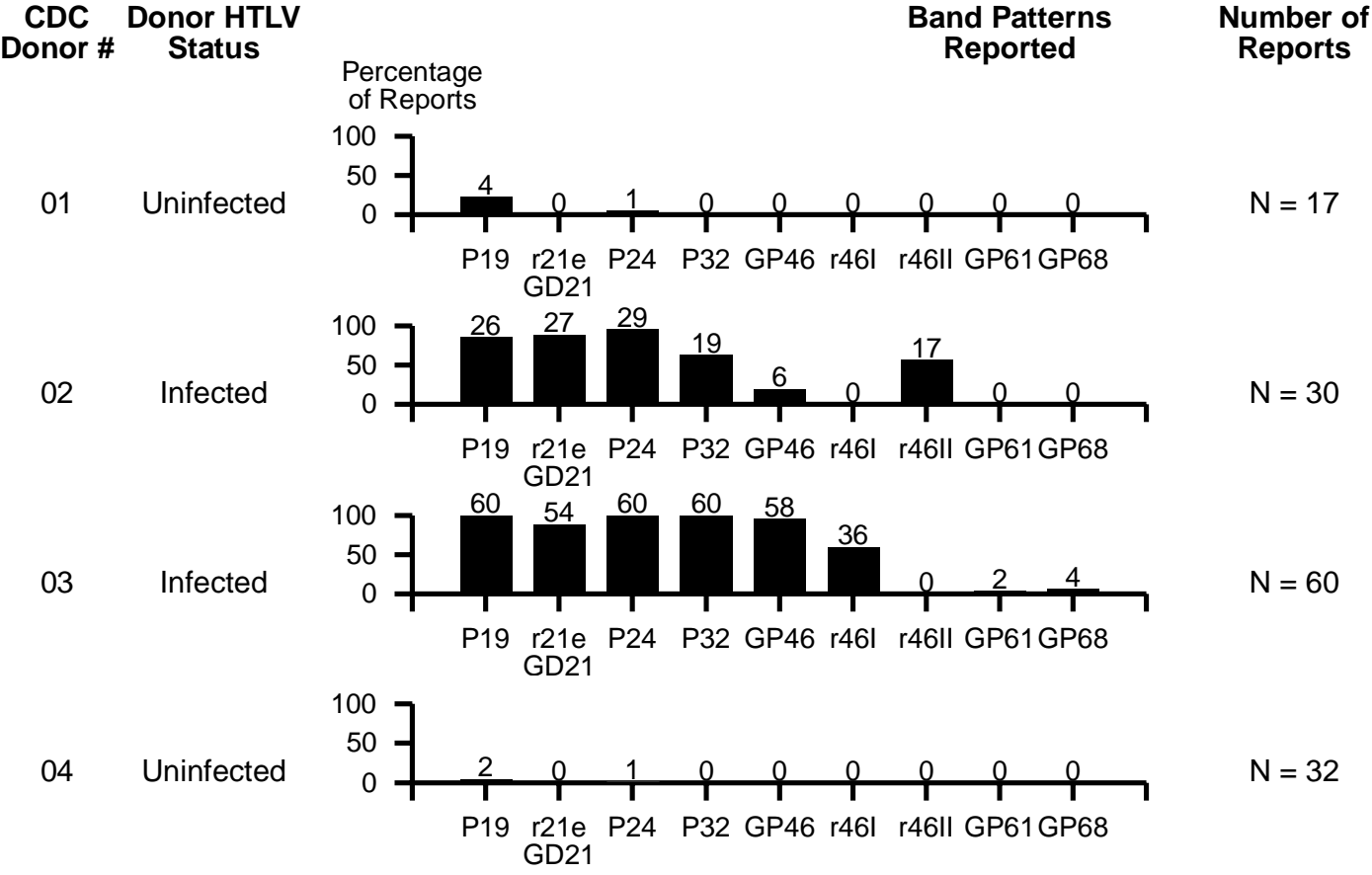
**Figure 7. Indirect immunofluorescence HTLV-I/II antibody test results, by kit manufacturer, reported by participant laboratories for the November 15, 1999 shipment**



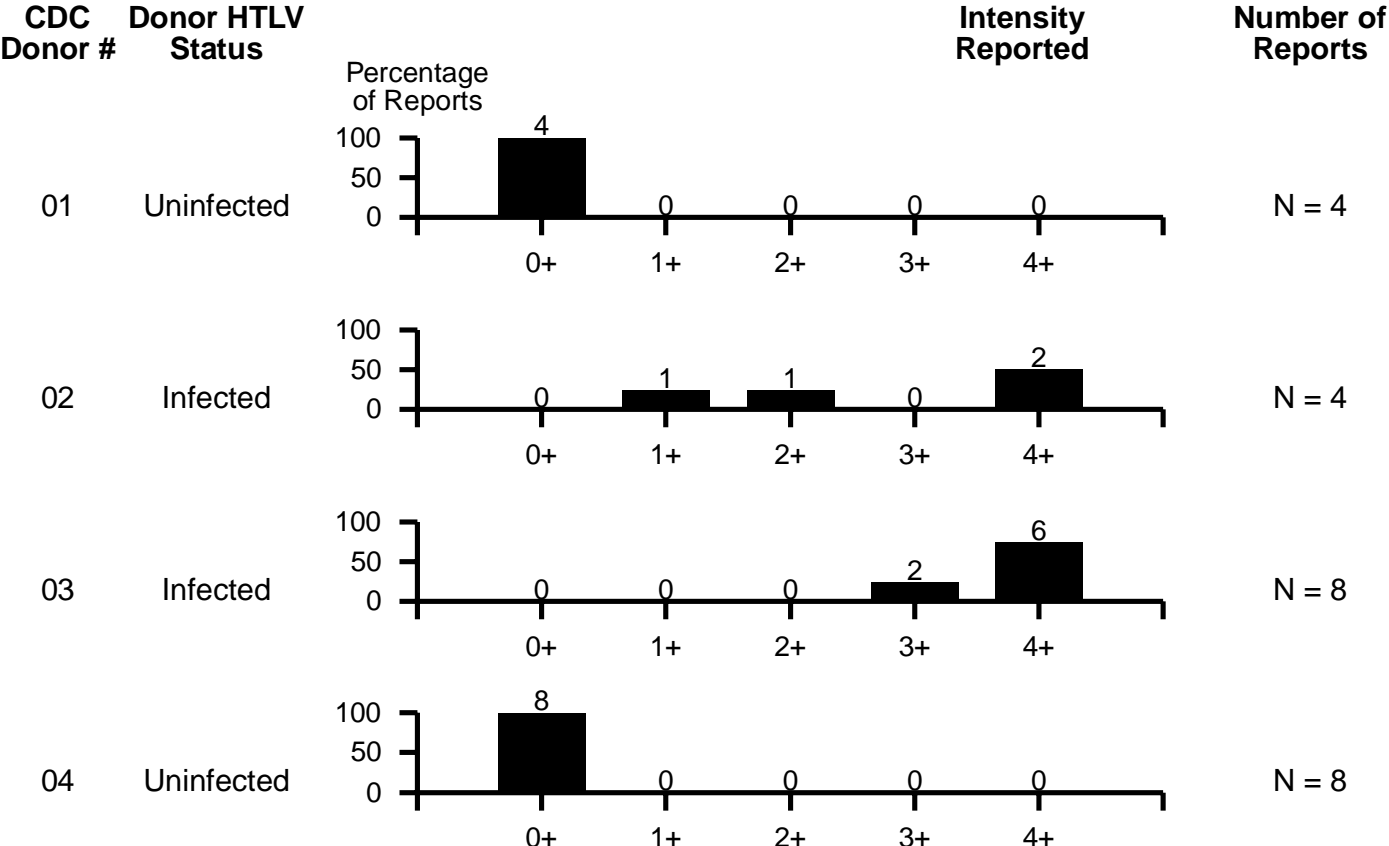
Test Result Interpretations

- Non-Reactive
- Indeterminate
- Reactive

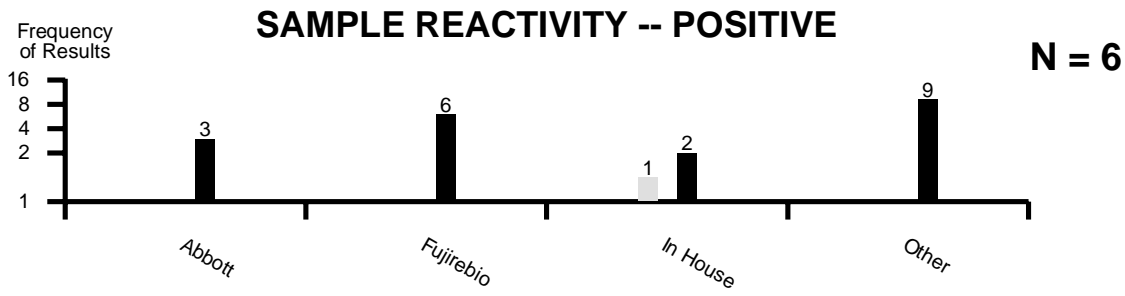
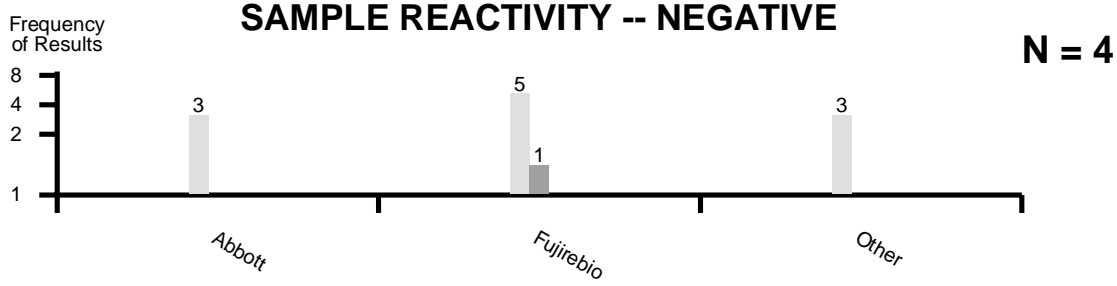
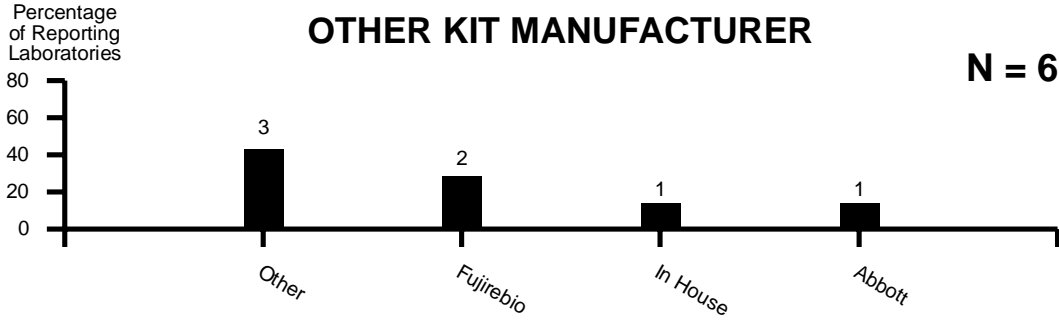
**Figure 8. Western blot HTLV-I/II antibody band patterns reported to CDC by participant laboratories for the November 15, 1999 shipment**



**Figure 9. Fluorescence intensity patterns, of HTLV-I/II-infected cells, for IIF results reported to CDC by participant laboratories for the November 15, 1999 shipment**



**Figure 10. Types of 'Other' HTLV antibody test kits used and results reported by participant laboratories to the CDC for the November 15, 1999 shipment**



Test Result Interpretations

Non-Reactive
  Indeterminate
  Reactive