

Rhode Island State Health Laboratories Algorithm for HIV Confirmatory Testing

1. HIV-1/2 antigen/antibody combination immunoassay (Abbott ALINITY)

Positive

Negative
for HIV-1 and HIV-2
antibodies and p24 Ag
Final interpretation:
Negative

2. HIV-1/HIV-2 Antibody differentiation immunoassay (Geenius)

HIV-1 (NR)
HIV-2 (NR)

Interpretation:
Negative for HIV

HIV-1 (IND)
HIV-2 (NR)

Interpretation:
Indeterminate

HIV-1 (R)
HIV-2 (NR/IND)

Final Interpretation:
HIV-1 Positive

HIV-1 (-NR/IND)
HIV-2 (R)

Final Interpretation:
HIV-2 Positive

HIV-1 (R)
HIV-2 (R) Untypable

Final Interpretation:
**HIV Positive, possible
dual infection**

HIV-1 (NR)
HIV-2 (IND)

Interpretation:
Indeterminate

HIV-1 (IND)
HIV-2 (IND)

Interpretation:
Indeterminate

HIV-1 (R)
HIV-2 (R)

HIV-2 Positive with
HIV-1 cross-reactivity
Final Interpretation:
HIV-2 Positive

3. Nucleic Acid Test (NAT) for HIV-1 (Aptima HIV-1 RNA)

Invalid
Final interpretation:
Indeterminate

NAT (-)
Final interpretation:
Negative HIV-1

NAT (+)
Final interpretation:
Positive HIV-1

*Note: A reactive HIV-1 NAT
result and non-reactive
Geenius result indicates
laboratory evidence of
acute HIV-1 infection*

R=Reactive
NR= Nonreactive
Ind= Indeterminate

Indeterminate: Guidance is to redraw in two to four weeks.