HIV-2 Qualitative, Real-Time PCR

Ordering Mnemonic: 3650, HIV-2 by PCR, Qual
Methodology: Real-time polymerase chain reaction
Preferred Specimen: Whole blood, EDTA (Lavender top)
Minimum Specimen Volume: 0.4 mL whole blood
Transport: Refrigerated, to arrive within 24 hours from collection
Reject Due to: Frozen; heparinized; hemolysis

When to order the HIV-2 Qualitative, Real-time PCR Test:

- The initial HIV-1/HIV-2 test results are:
  - HIV-1/HIV-2 EIA Screen: Reactive
  - HIV-1/HIV-2 Differentiation Test: Non-reactive
    Interpretation: Inconclusive. Reactive HIV-1/HIV-2 screen result could not be confirmed by the differentiation test; may be due to acute or early infection or false positive screen. Recommend repeat HIV antigen/antibody testing and HIV-1 RNA testing.
  - AND the HIV-1 RNA Qualitative TMA test was negative.

OR

- The initial HIV-1/HIV-2 test results are:
  - HIV EIA Screen: Reactive
  - HIV-1/HIV-2 Differentiation Test: HIV-1 and HIV-2 Reactive, Undifferentiated
    Interpretation: Evidence of HIV infection is present but unable to differentiate antibodies as HIV-1 or HIV-2; recommend referral testing for HIV-1 RNA and HIV-2 RNA or DNA to verify or rule-out dual infection.
  - AND the HIV-1 RNA Qualitative TMA test was negative.

OR

- The initial HIV-1/HIV-2 test results are:
  - HIV EIA Screen: Non-reactive
  - AND acute HIV infection is suspected
  - AND the HIV-1 RNA Qualitative TMA test was negative.

OR

- Determined as appropriate by the HIV/STD Division.
1. The HIV-2 Qualitative Real-Time PCR test requires **pre-approval by the HIV/STD Division**.

2. If testing is found to be appropriate, the HIV/STD Division will provide you with a test requisition form for the OSDH-contracted referral laboratory - **Clinical Pathology Laboratories (CPL)**.

3. Schedule CPL Courier Service pick-up on the **day prior to the patient’s scheduled appointment**.

   **Note: blood drawn for HIV testing must arrive at CPL within 24 hours of collection**; therefore, the patient’s appointment time should be carefully scheduled (preferably in the early morning) to allow for pick-up by the courier and timely delivery to the testing laboratory.

   **Call the CPL Courier Service the day before the scheduled appointment to ask for specimen pick-up on the next day:**  Tulsa area: 1-800-891-2917;  OKC area: 1-405-943-4616

   **If you are at one of 14 sites that rely solely on the SureXpress Courier Service, ensure that the patient’s specimen is drawn and packaged prior to the regularly scheduled pick-up time.**

4. Fill-out (print) the following mandatory fields on the **CPL Test Requisition Form** (see next page pink highlighted areas):
   - **Left-side of form:**
     - Date Collected
     - Patient Name (Last, First, Middle)
     - Sex
     - Date of Birth (mm/dd/year)
     - Time of Collection
     - AM or PM
   - **Right-side of the form:**
     - Circle: Rhoades, Edd 60500 ordering Physician
   - **Middle of form:**
     - Site Code
     - Test Name; mark **3650 HIV-2 PCR, QUAL**

5. **Specimen Collection**:
   a. Label a lavender-top **EDTA tube** with the following:
      - Patient’s Name
      - Date of Collection
      - Your Initials
   b. Draw the patient's blood into labeled EDTA tube. The tube should be full.
   c. Gently, invert the tube five (5) times.

6. Prepare the specimen for courier pick-up as follows:
   a. Place the EDTA tube in a leak-proof “Specimen” bag.
   b. Fold the test requisition form, and slide it into the outer pocket of the bag.
   c. Mark the outside of the bag “24 Hour Handling Required”.
   d. Store the bagged specimen in the refrigerator (do not freeze) until pick-up by the courier.
<table>
<thead>
<tr>
<th>Test Code</th>
<th>Test Name</th>
<th>Type</th>
<th>Source</th>
<th>Room Temp</th>
<th>Centrifuge</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>6331 CULTURE, EC</td>
<td>ST</td>
<td>SERUM</td>
<td>REFRIG</td>
<td>YES</td>
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<tr>
<td>1</td>
<td>4557 HIV RFLX QT, RFLX Gen + (+) (044)</td>
<td>ST</td>
<td>SERUM</td>
<td>REFRIG</td>
<td>YES</td>
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<tr>
<td>1</td>
<td>2730 HEP B CORE AB RFLX IgG</td>
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<td>SERUM</td>
<td>REFRIG</td>
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<tr>
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<td>10837 HEP B SURFACE Ag/Ab, UL PROFILE (+)</td>
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<td>WHOLE BLOOD</td>
<td>ROOM TEMP</td>
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<tr>
<td>1</td>
<td>3650 HIV-2 BY PCR, REAL</td>
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<td>PLASMA</td>
<td>REFRIG</td>
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<td>PLASMA</td>
<td>REFRIG</td>
<td>YES</td>
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