

**GUIDELINES:**

- Specimens collected with an improper ratio of specimen to anticoagulant cannot be used for testing.
- Serum or plasma **MUST** be removed from the red blood cells prior to freezing.

## Hepatitis B Virus

### Hepatitis B Virus Surface Antigen (HBsAg)

<ul style="list-style-type: none"> <li>○ <b>Testing options</b> <ul style="list-style-type: none"> <li>• <u>HBsAg w/ reflex</u> - Confirmatory performed on Repeatedly Reactive samples</li> <li>• <u>HBsAg w/ no reflex</u> – No further testing performed</li> </ul> </li> </ul> <p><b>Manufacturer / Methodology:</b> Abbott Laboratories / CMIA Screening</p> <p><b>Testing Days:</b> Monday thru Saturday</p> <p><b>CPT Code:</b> 87340</p>	<ul style="list-style-type: none"> <li>○ <b>Specimen Volume (excluding red cell volume):</b> 1.0 mL</li> <li>○ <b>Specimen Types:</b> <ul style="list-style-type: none"> <li>• Serum, SST</li> <li>• Plasma (EDTA, lithium heparin, and sodium citrate), PST</li> </ul> </li> <li>○ <b>Storage Instructions:</b> <ul style="list-style-type: none"> <li>• 15-30°C up to 7 days</li> <li>• 2-8°C up to 14 days</li> <li>• ≤ -20°C after 14 days, not to exceed 3 months</li> <li>• 6 Freeze/Thaw cycles</li> </ul> </li> <li>○ <b>Shipping Requirements:</b> <ul style="list-style-type: none"> <li>• Ambient (up to 30°C) up to 7 days</li> <li>• Refrigerated (2-8°C) up to 14 days</li> <li>• Frozen (≤ -20°C) after 14 days, not to exceed 3 months</li> </ul> </li> </ul>
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### Hepatitis B Virus Surface Antigen Confirmatory (HBsAg Confirmatory)

<ul style="list-style-type: none"> <li>○ <b>Testing options</b> <ul style="list-style-type: none"> <li>• <u>HBsAg Confirmatory</u></li> </ul> </li> </ul> <p><b>Manufacturer / Methodology:</b> Abbott Laboratories / CMIA Confirmatory</p> <p><b>Testing Days:</b> Wednesday</p> <p><b>CPT Code:</b> 87341</p>	<ul style="list-style-type: none"> <li>○ <b>Specimen Volume (excluding red cell volume):</b> 1.0 mL</li> <li>○ <b>Specimen Types:</b> <ul style="list-style-type: none"> <li>• Serum, SST</li> <li>• Plasma (EDTA, lithium heparin, and sodium citrate), PST</li> </ul> </li> <li>○ <b>Storage Instructions:</b> <ul style="list-style-type: none"> <li>• 15-30°C up to 7 days</li> <li>• 2-8°C up to 14 days</li> <li>• ≤ -20°C after 14 days, not to exceed 3 months</li> <li>• 6 Freeze/Thaw cycles</li> </ul> </li> <li>○ <b>Shipping Requirements:</b> <ul style="list-style-type: none"> <li>• Ambient (up to 30°C) up to 7 days</li> <li>• Refrigerated (2-8°C) up to 14 days</li> <li>• Frozen (≤ -20°C) after 14 days, not to exceed 3 months</li> </ul> </li> </ul>
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### Antibody to Hepatitis B Virus Surface Antigen (Anti-HBs)

<ul style="list-style-type: none"> <li>○ <b>Testing options</b> <ul style="list-style-type: none"> <li>• <u>Anti-HBs Quantitative (Elecys)</u></li> </ul> </li> </ul> <p><b>Manufacturer / Methodology:</b> Roche Diagnostics / Electrochemiluminescence immunoassay</p> <p><b>Testing Days:</b> Monday thru Friday</p> <p><b>CPT Code:</b> 86317</p> <p style="text-align: center;"><b>Sent to Labcorp for testing</b></p>	<ul style="list-style-type: none"> <li>○ <b>Specimen Volume (excluding red cell volume):</b> 1.0 mL</li> <li>○ <b>Specimen Types:</b> <ul style="list-style-type: none"> <li>• Serum, SST</li> <li>• Plasma (EDTA)</li> <li>• Do not use heat inactivated specimens</li> </ul> </li> <li>○ <b>Storage Instructions:</b> <ul style="list-style-type: none"> <li>• RT up to 14 days</li> <li>• Refrigerated up to 14 days</li> <li>• Frozen up to 14 days</li> <li>• 3 Freeze/Thaw cycles</li> </ul> </li> <li>○ <b>Shipping Requirements:</b> <ul style="list-style-type: none"> <li>• RT, Refrigerated. Or Frozen up to 14 days, cumulative</li> </ul> </li> </ul>
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## Hepatitis B Virus (cont'd)

### Antibody to Hepatitis B Core Antigen (Anti-HBc Total)

<ul style="list-style-type: none"> <li>○ <b>Testing options</b> <ul style="list-style-type: none"> <li>● <u>HBc Total</u></li> </ul> </li> </ul> <p><b>Manufacturer / Methodology:</b> Abbott Laboratories / CMIA Screening</p> <p><b>Testing Days:</b> Monday thru Saturday</p> <p><b>CPT Code:</b> 86704</p>	<ul style="list-style-type: none"> <li>○ <b>Specimen Volume (excluding red cell volume):</b> 1.0 mL</li> <li>○ <b>Specimen Types:</b> <ul style="list-style-type: none"> <li>● Serum, SST</li> <li>● Plasma (EDTA, lithium heparin, and sodium citrate), PST</li> </ul> </li> <li>○ <b>Storage Instructions:</b> <ul style="list-style-type: none"> <li>● 15-30°C up to 7 days</li> <li>● 2-8°C for up to 14 days</li> <li>● ≤ -20°C after 14 days, not to exceed 3 months</li> <li>● 6 Freeze/Thaw cycles</li> </ul> </li> <li>○ <b>Shipping Requirements:</b> <ul style="list-style-type: none"> <li>● Ambient (up to 30°C) up to 7 days</li> <li>● Refrigerated (2-8°C) up to 14 days</li> <li>● Frozen (≤ -20°C) after 14 days, not to exceed 3 months</li> </ul> </li> </ul>
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### Antibody to Hepatitis B Core Antigen IgM (Anti-HBc IgM)

<ul style="list-style-type: none"> <li>○ <b>Testing options</b> <ul style="list-style-type: none"> <li>● <u>Anti-HBc IgM (Elecsys)</u></li> </ul> </li> </ul> <p><b>Manufacturer / Methodology:</b> Roche Diagnostics / Electrochemiluminescence immunoassay</p> <p><b>Testing Days:</b> Monday thru Friday</p> <p><b>CPT Code:</b> 86705</p> <div style="background-color: #f0f0f0; padding: 5px; text-align: center; margin-top: 10px;"> <b><i>Sent to Labcorp for testing</i></b> </div>	<ul style="list-style-type: none"> <li>○ <b>Specimen Volume (excluding red cell volume):</b> 1.0 mL</li> <li>○ <b>Specimen Types:</b> <ul style="list-style-type: none"> <li>● Serum, SST</li> <li>● Plasma (EDTA)</li> </ul> </li> <li>○ <b>Storage Instructions:</b> <ul style="list-style-type: none"> <li>● RT up to 14 days</li> <li>● Refrigerated up to 14 days</li> <li>● Frozen up to 14 days</li> <li>● 3 Freeze/Thaw cycles</li> </ul> </li> <li>○ <b>Shipping Requirements:</b> <ul style="list-style-type: none"> <li>● RT, Refrigerated. Or Frozen up to 14 days, cumulative</li> </ul> </li> </ul>
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## Hepatitis C Virus

### Antibody to Hepatitis C Virus (Anti-HCV II)

<ul style="list-style-type: none"> <li>○ <b>Testing options</b> <ul style="list-style-type: none"> <li>● <u>HCV w/ reflex</u> – Ortho HCV performed on Repeatedly Reactive samples</li> <li>● <u>HCV w/ no reflex</u> – No further testing performed</li> </ul> </li> </ul> <p><b>Manufacturer / Methodology:</b> Abbott Laboratories / CMIA Screening</p> <p><b>Testing Days:</b> Monday thru Saturday</p> <p><b>CPT Code:</b> 86803</p>	<ul style="list-style-type: none"> <li>○ <b>Specimen Volume (excluding red cell volume):</b> 1.0 mL</li> <li>○ <b>Specimen Types:</b> <ul style="list-style-type: none"> <li>● Serum, SST</li> <li>● Plasma (EDTA, lithium heparin, and sodium citrate), PST</li> </ul> </li> <li>○ <b>Storage Instructions:</b> <ul style="list-style-type: none"> <li>● 15-30°C up to 7 days</li> <li>● 2-8°C up to 14 days</li> <li>● ≤ -20°C after 14 days, not to exceed 9 months</li> <li>● 6 Freeze/Thaw cycles</li> </ul> </li> <li>○ <b>Shipping Requirements:</b> <ul style="list-style-type: none"> <li>● Ambient (up to 30°C) up to 7 days</li> <li>● Refrigerated (2-8°C) up to 14 days</li> <li>● Frozen (≤ -20°C) after 14 days, not to exceed 9 months</li> </ul> </li> </ul>
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### Antibody to Hepatitis C Virus (Anti-HCV) Alternate Methodology

<ul style="list-style-type: none"> <li>○ <b>Testing options</b> <ul style="list-style-type: none"> <li>● <u>Anti-HCV EIA (ORTHO)</u></li> </ul> </li> </ul> <p><b>Manufacturer / Methodology:</b> Ortho-Clinical Diagnostics, Inc. / EIA Screening</p> <p><b>Testing Days:</b> Monday thru Saturday</p> <p><b>CPT Code:</b> 86803</p> <div style="background-color: #e0e0e0; padding: 5px; text-align: center; margin-top: 10px;"> <b>Sent to Creative Testing Solutions for testing</b> </div>	<ul style="list-style-type: none"> <li>○ <b>Specimen Volume (excluding red cell volume):</b> 1.0 mL</li> <li>○ <b>Specimen Types:</b> <ul style="list-style-type: none"> <li>● Serum, SST</li> <li>● Plasma (EDTA, lithium heparin, CPD, CP2D, CPDA-1, ACD or 4% citrate anticoagulants)</li> </ul> </li> <li>○ <b>Storage Instructions:</b> <ul style="list-style-type: none"> <li>● 2-8°C up to 10 days</li> <li>● ≤ -20°C after 10 days, not to exceed 4 weeks</li> <li>● 5 Freeze/Thaw cycles</li> </ul> </li> <li>○ <b>Shipping Requirements:</b> <ul style="list-style-type: none"> <li>● Ambient (up to 37°C) or Refrigerated (2-8°C) up to 7 days</li> <li>● Frozen (≤ -20°C) after 7 days, not to exceed 4 weeks</li> </ul> </li> </ul>
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## Human Immunodeficiency Virus (HIV)

### Human Immunodeficiency Viruses Type 1 and 2 Antigen, Antibody (HIV Ag/Ab Combo)

<ul style="list-style-type: none"> <li>○ <b>Testing options</b> <ul style="list-style-type: none"> <li>● <u>HIV-1/2 w/ reflex</u> – Geenius HIV 1/2 Supplemental Assay performed on Repeatedly Reactive samples</li> <li>● <u>HIV-1/2 w/ no reflex</u> – No further testing performed</li> </ul> </li> </ul> <p><b>Manufacturer / Methodology:</b> Abbott Laboratories / CMIA Screening</p> <p><b>Testing Days:</b> Monday thru Saturday</p> <p><b>CPT Code:</b> 86703</p>	<ul style="list-style-type: none"> <li>○ <b>Specimen Volume (excluding red cell volume):</b> 1.0 mL</li> <li>○ <b>Specimen Types:</b> <ul style="list-style-type: none"> <li>● Serum, SST</li> <li>● Plasma (EDTA, lithium heparin, and sodium citrate), PST</li> </ul> </li> <li>○ <b>Storage Instructions:</b> <ul style="list-style-type: none"> <li>● 15-30°C up to 7 days</li> <li>● 2-8°C up to 14 days</li> <li>● ≤ -20°C after 14 days, not to exceed 3 months</li> <li>● 6 Freeze/Thaw cycles</li> </ul> </li> <li>○ <b>Shipping Requirements:</b> <ul style="list-style-type: none"> <li>● Ambient (up to 30°C) up to 7 days</li> <li>● Refrigerated (2-8°C) up to 14 days</li> <li>● Frozen (≤ -20°C) after 14 days, not to exceed 3 months</li> </ul> </li> </ul>
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### Geenius HIV 1/2 Supplemental Assay (Confirmatory)

<ul style="list-style-type: none"> <li>○ <b>Testing options</b> <ul style="list-style-type: none"> <li>● <u>Geenius HIV 1/2 Supplemental Assay</u></li> </ul> </li> </ul> <p><b>Manufacturer / Methodology:</b> Bio-Rad / Immunochromatographic Assay</p> <p><b>Testing Days:</b> Monday, Wednesday, Friday</p> <p><b>CPT Code(s):</b> 86701 / 86702</p>	<ul style="list-style-type: none"> <li>○ <b>Specimen Volume (excluding red cell volume):</b> 100 uL</li> <li>○ <b>Specimen Types:</b> <ul style="list-style-type: none"> <li>● Serum, SST</li> <li>● Plasma (EDTA, lithium heparin, sodium citrate, CPD)</li> </ul> </li> <li>○ <b>Storage Instructions:</b> <ul style="list-style-type: none"> <li>● RT (18-30°C) up to 48 hours</li> <li>● 2-8°C up to 7 days</li> <li>● ≤ -20°C after 7 days</li> <li>● 5 Freeze/Thaw cycles</li> </ul> </li> <li>○ <b>Shipping Requirements:</b> <ul style="list-style-type: none"> <li>● Ambient (18-30°C) up to 2 days</li> <li>● Refrigerated (2-8°C) up to 7 days</li> <li>● Frozen (≤ -20°C) after 7 days</li> </ul> </li> </ul>
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## Human T-Lymphotropic Virus (HTLV)

### Antibody to Human T-Lymphotropic Virus Type I and II (Anti-HTLV I/II)

<ul style="list-style-type: none"> <li>○ <b>Testing options</b> <ul style="list-style-type: none"> <li>● <u>HTLV-I/II w/ reflex</u> – MP HTLV Blot 2.4 performed on Repeatedly Reactive samples</li> <li>● <u>HTLV-I/II w/ no reflex</u> – No further testing performed</li> </ul> </li> </ul> <p><b>Manufacturer / Methodology:</b> Abbott Laboratories / CMIA Screening</p> <p><b>Testing Days:</b> Monday thru Saturday</p> <p><b>CPT Code(s):</b> 86687 / 86688</p>	<ul style="list-style-type: none"> <li>○ <b>Specimen Volume (excluding red cell volume):</b> 1.0 mL</li> <li>○ <b>Specimen Types:</b> <ul style="list-style-type: none"> <li>● Serum, SST</li> <li>● Plasma (EDTA, lithium heparin, and sodium citrate), PST</li> </ul> </li> <li>○ <b>Storage Instructions:</b> <ul style="list-style-type: none"> <li>● 15-30°C up to 7 days</li> <li>● 2-8°C up to 14 days</li> <li>● ≤ -20°C after 14 days, not to exceed 3 months</li> <li>● 6 Freeze/Thaw cycles</li> </ul> </li> <li>○ <b>Shipping Requirements:</b> <ul style="list-style-type: none"> <li>● Ambient (up to 30°C) up to 7 days</li> <li>● Refrigerated (2-8°C) up to 14 days</li> <li>● Frozen (≤ -20°C) after 14 days, not to exceed 3 months</li> </ul> </li> </ul>
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### Antibody to Human T-Lymphotropic Virus Type I and II Western Blot (MPD HTLV Blot 2.4) (Confirmatory)

<ul style="list-style-type: none"> <li>○ <b>Testing options</b> <ul style="list-style-type: none"> <li>● <u>MP HTLV Blot 2.4</u></li> </ul> </li> </ul> <p><b>Manufacturer / Methodology:</b> MP Biomedicals / Western Blot</p> <p><b>Testing Days:</b> Wednesday or Friday, full runs only</p> <p><b>CPT Code:</b> 86689</p> <div style="background-color: #f0f0f0; padding: 5px; text-align: center; margin-top: 10px;"> <b>Sent to Creative Testing Solutions for testing</b> </div>	<ul style="list-style-type: none"> <li>○ <b>Specimen Volume (excluding red cell volume):</b> 0.5 mL</li> <li>○ <b>Specimen Types:</b> <ul style="list-style-type: none"> <li>● Serum</li> <li>● Plasma (EDTA, potassium oxalate, sodium citrate, heparin, ACD anticoagulants), PPT</li> <li>● Grossly lipemic or icteric samples should be avoided</li> </ul> </li> <li>○ <b>Storage Instructions:</b> <ul style="list-style-type: none"> <li>● 2-8°C up to 7 days</li> <li>● ≤ -20°C after 7 days</li> <li>● 5 Freeze/Thaw cycles</li> </ul> </li> <li>○ <b>Shipping Requirements:</b> <ul style="list-style-type: none"> <li>● Refrigerated (2-8°C) up to 7 days</li> <li>● Frozen (≤ -20°C) after 7 days</li> </ul> </li> </ul>
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### Antibody to Human T-Lymphotropic Virus Type I and II (Anti-HTLV I/II) (Alternate Methodology)

<ul style="list-style-type: none"> <li>○ <b>Testing options</b> <ul style="list-style-type: none"> <li>● <u>Anti-HTLV-I/II EIA (AVIOQ)</u></li> </ul> </li> </ul> <p><b>Manufacturer / Methodology:</b> Avioq, Inc. / ELISA</p> <p><b>Testing Days:</b> Monday thru Friday</p> <p><b>CPT Code(s):</b> 86687 / 86688</p> <div style="background-color: #f0f0f0; padding: 5px; text-align: center; margin-top: 10px;"> <b>Sent to Creative Testing Solutions for testing</b> </div>	<ul style="list-style-type: none"> <li>○ <b>Specimen Volume (excluding red cell volume):</b> 0.5 mL</li> <li>○ <b>Specimen Types:</b> <ul style="list-style-type: none"> <li>● Serum, SST</li> <li>● Plasma (EDTA, heparin, citrate, CPD, CPDA-1)</li> <li>● Blood from Segmented tubing</li> </ul> </li> <li>○ <b>Storage Instructions:</b> <ul style="list-style-type: none"> <li>● 2-8°C up to 14 days</li> <li>● ≤ -20°C after 14 days</li> <li>● 1 Freeze/Thaw cycle</li> </ul> </li> <li>○ <b>Shipping Requirements:</b> <ul style="list-style-type: none"> <li>● Ambient, Refrigerated (2-8°C), or Frozen (≤ -20°C)</li> </ul> </li> </ul>
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## Trypanosoma cruzi (T.cruzi)

### Antibody to Trypanosoma cruzi (Anti-T.cruzi)

<ul style="list-style-type: none"> <li>○ <b>Testing options</b> <ul style="list-style-type: none"> <li>● <u>Anti-T.cruzi w/ reflex</u> – Abbott Chagas ESA performed on Repeatedly Reactive samples</li> <li>● <u>Anti-T.cruzi w/ no reflex</u> – No further testing performed</li> </ul> </li> </ul> <p><b>Manufacturer / Methodology:</b> Abbott Laboratories / CMIA Screening</p> <p><b>Testing Days:</b> Monday thru Saturday</p> <p><b>CPT Code:</b> 86753</p>	<ul style="list-style-type: none"> <li>○ <b>Specimen Volume (excluding red cell volume):</b> 1.0 mL</li> <li>○ <b>Specimen Types:</b> <ul style="list-style-type: none"> <li>● Serum, SST</li> <li>● Plasma (EDTA, lithium heparin, and sodium citrate), PST</li> </ul> </li> <li>○ <b>Storage Instructions:</b> <ul style="list-style-type: none"> <li>● 15-30°C up to 7 days</li> <li>● 2-8°C up to 14 days</li> <li>● ≤ -20°C after 14 days, not to exceed 3 months</li> <li>● 6 Freeze/Thaw cycles</li> </ul> </li> <li>○ <b>Shipping Requirements:</b> <ul style="list-style-type: none"> <li>● Ambient (up to 30°C) up to 7 days</li> <li>● Refrigerated (2-8°C) up to 14 days</li> <li>● Frozen (≤ -20°C) after 14 days, not to exceed 3 months</li> </ul> </li> </ul>
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### Trypanosoma cruzi (E coli, Recombinant) Antigen (Abbott Chagas ESA) (Confirmatory)

<ul style="list-style-type: none"> <li>○ <b>Testing options</b> <ul style="list-style-type: none"> <li>● <u>Abbott Chagas ESA</u></li> </ul> </li> </ul> <p><b>Manufacturer / Methodology:</b> Abbott Laboratories / Enzyme Strip Assay</p> <p><b>Testing Days:</b> Thursday, full runs only</p> <p><b>CPT Code:</b> 86753</p> <div style="background-color: #e0e0e0; padding: 5px; text-align: center; margin-top: 10px;"> <b>Sent to Creative Testing Solutions for testing</b> </div>	<ul style="list-style-type: none"> <li>○ <b>Specimen Volume (excluding red cell volume):</b> 1.0 mL</li> <li>○ <b>Specimen Types:</b> <ul style="list-style-type: none"> <li>● Serum, SST</li> <li>● Plasma (EDTA, potassium oxalate, sodium citrate, ACD-A, ACD-B, CP2D, CPD, or CPDA-1 anticoagulants or collected from segmented tubing)</li> <li>● <b>DO NOT</b> use specimens collected in Heparin</li> </ul> </li> <li>○ <b>Storage Instructions:</b> <ul style="list-style-type: none"> <li>● ≤ 30°C up to 7 days</li> <li>● 2-8°C up to 14 days</li> <li>● ≤ -20°C after 14 days, not to exceed 2 months</li> </ul> </li> <li>○ <b>Shipping Requirements:</b> <ul style="list-style-type: none"> <li>● Ambient (up to 30°C) up to 7 days</li> <li>● Refrigerated (2-8°C) up to 14 days</li> <li>● Frozen (≤ -20°C) after 14 days, not to exceed 2 months</li> </ul> </li> </ul>
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### Antibody to Trypanosoma cruzi (Anti-T.cruzi) (Alternate Methodology)

<ul style="list-style-type: none"> <li>○ <b>Testing options</b> <ul style="list-style-type: none"> <li>● <u>T. cruzi EIA (ORTHO)</u></li> </ul> </li> </ul> <p><b>Manufacturer / Methodology:</b> Ortho-Clinical Diagnostics, Inc. / ELISA</p> <p><b>Testing Days:</b> Monday thru Friday</p> <p><b>CPT Code:</b> 86753</p> <div style="background-color: #e0e0e0; padding: 5px; text-align: center; margin-top: 10px;"> <b>Sent to Creative Testing Solutions for testing</b> </div>	<ul style="list-style-type: none"> <li>○ <b>Specimen Volume (excluding red cell volume):</b> 1.0 mL</li> <li>○ <b>Specimen Types:</b> <ul style="list-style-type: none"> <li>● Serum, SST</li> <li>● Plasma (EDTA, lithium heparin, CPD, CP2D, CPDA-1, ACD or 4% citrate anticoagulants)</li> </ul> </li> <li>○ <b>Storage Instructions:</b> <ul style="list-style-type: none"> <li>● 2-8°C up to 10 days</li> <li>● ≤ -20°C after 10 days, not to exceed 4 weeks (see NOTE below)</li> <li>● 5 Freeze/Thaw cycle</li> <li>● <b>NOTE:</b> can be stored up to 6 months with 1 Freeze/Thaw cycle</li> </ul> </li> <li>○ <b>Shipping Requirements:</b> <ul style="list-style-type: none"> <li>● Ambient (up to 30°C) or Refrigerated (2-8°C) for up to 7 days</li> <li>● Frozen (≤ -20°C) after 7 days, not to exceed 4 weeks (see NOTE above)</li> </ul> </li> </ul>
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## Serologic Test for Syphilis (STS)

### PK Treponema Pallidum System for detection of Syphilis (Syphilis MHA-TP)

<ul style="list-style-type: none"> <li>○ <b>Testing options</b> <ul style="list-style-type: none"> <li>● <u>Syphilis MHA-TP</u></li> </ul> </li> </ul> <p><b>Manufacturer / Methodology:</b> Newmarket Biomedical Ltd./ Hemagglutination</p> <p><b>Testing Days:</b> Monday thru Saturday</p> <p><b>CPT Code:</b> 86780</p>	<ul style="list-style-type: none"> <li>○ <b>Specimen Volume (excluding red cell volume):</b> 2.0 mL</li> <li>○ <b>Specimen Types:</b> <ul style="list-style-type: none"> <li>● Serum</li> <li>● Plasma (EDTA or CPDA)</li> </ul> </li> <li>○ <b>Storage Instructions:</b> <ul style="list-style-type: none"> <li>● 2-8°C up to 7 days</li> <li>● ≤ -20°C after 7 days, not to exceed 1 month</li> </ul> </li> <li>○ <b>Shipping Requirements:</b> <ul style="list-style-type: none"> <li>● Refrigerated (2-8°C) for up to 7 days</li> <li>● Frozen (≤ -20°C) after 7 days</li> </ul> </li> </ul>
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### Captia Syphilis (T.Pallidum)-G

<p><b>NOTE:</b> Used as a supplemental test for Repeatedly Reactive Blood Donors ONLY</p> <ul style="list-style-type: none"> <li>○ <b>Testing options</b> <ul style="list-style-type: none"> <li>● <u>CAPTIA Syphilis TPALL</u></li> </ul> </li> </ul> <p><b>Manufacturer / Methodology:</b> Trinity Biotech / Enzyme Immunoassay</p> <p><b>Testing Days:</b> Monday thru Friday</p> <p><b>CPT Code:</b> 86780</p> <p style="text-align: center; background-color: #f0f0f0; padding: 5px;"><b>Sent to ViroMed / Labcorp for testing</b></p>	<ul style="list-style-type: none"> <li>○ <b>Specimen Volume (excluding red cell volume):</b> 0.5 mL</li> <li>○ <b>Specimen Types:</b> <ul style="list-style-type: none"> <li>● Serum</li> </ul> </li> <li>○ <b>Storage Instructions:</b> <ul style="list-style-type: none"> <li>● 2-8°C up to 5 days</li> <li>● ≤ -20°C after 5 days</li> <li>● Avoid multiple Freeze / Thaw cycles</li> </ul> </li> <li>○ <b>Shipping Requirements:</b> <ul style="list-style-type: none"> <li>● Ambient, Refrigerated (2-8°C), or Frozen (≤ -10°C)</li> </ul> </li> </ul>
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### RPR

<ul style="list-style-type: none"> <li>○ <b>Testing options</b> <ul style="list-style-type: none"> <li>● <u>Rapid Plasma Reagin (RPR)</u></li> </ul> </li> </ul> <p><b>Manufacturer / Methodology:</b> Arlington Scientific, Inc. / Non-Treponemal flocculation assay</p> <p><b>Testing Days:</b> Monday thru Friday</p> <p><b>CPT Code:</b> 86780</p> <p style="text-align: center; background-color: #f0f0f0; padding: 5px;"><b>Sent to Creative Testing Solutions for testing</b></p>	<ul style="list-style-type: none"> <li>○ <b>Specimen Volume (excluding red cell volume):</b> 1.0 mL</li> <li>○ <b>Specimen Types:</b> <ul style="list-style-type: none"> <li>● Serum</li> <li>● Plasma (EDTA, CPD, CPDA-1, heparin, or sodium citrate)</li> <li>● Grossly hemolyzed or lipemic samples should not be used</li> </ul> </li> <li>○ <b>Storage Instructions:</b> <ul style="list-style-type: none"> <li>● 2-8°C up to 5 days</li> <li>● ≤ -20°C after 5 days (SERUM ONLY)</li> <li>● FROZEN PLASMA CANNOT BE USED FOR TESTING</li> </ul> </li> <li>○ <b>Shipping Requirements:</b> <ul style="list-style-type: none"> <li>● Refrigerated (2-8°C) up to 5 days</li> <li>● Frozen (≤ -20°C) after 5 days (SERUM ONLY)</li> </ul> </li> </ul>
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## Cytomegalovirus (CMV)

### Antibody to Cytomegalovirus (Anti-CMV Total (IgG + IgM Antibody))

<ul style="list-style-type: none"> <li>○ <b>Testing options</b> <ul style="list-style-type: none"> <li>● <u>CMV Total w/ no reflex</u> – No further testing performed</li> <li>● <u>CMV Total w/ reflex to IgG/IgM</u> – CMV IgG EIA and CMV IgM EIA performed on Reactive samples               <ul style="list-style-type: none"> <li>○ See below for reflex sample requirements</li> </ul> </li> <li>● <u>CMV Total w/ reflex to IgM</u> – CMV IgM EIA performed on Reactive samples               <ul style="list-style-type: none"> <li>○ See below for reflex sample requirements</li> </ul> </li> </ul> </li> </ul> <p><b>Manufacturer / Methodology:</b> Fujirebio, Inc. / Passive Particle Agglutination</p> <p><b>Testing Days:</b> Monday thru Saturday</p> <p><b>CPT Code:</b> 86644</p>	<ul style="list-style-type: none"> <li>○ <b>Specimen Volume (excluding red cell volume):</b> 1.0 mL</li> <li>○ <b>Specimen Types:</b> <ul style="list-style-type: none"> <li>● Serum</li> <li>● Plasma (EDTA)</li> </ul> </li> <li>○ <b>Storage Instructions:</b> <ul style="list-style-type: none"> <li>● 15-30°C up to 3 days</li> </ul>           EDTA ONLY:           <ul style="list-style-type: none"> <li>● 2-8°C up to 5 days</li> </ul>           Serum ONLY           <ul style="list-style-type: none"> <li>● 2-8°C up to 14 days</li> <li>● ≤ -20°C after 14 days</li> <li>● Avoid multiple Freeze/Thaw cycles</li> </ul> </li> <li>○ <b>Shipping Requirements:</b> <ul style="list-style-type: none"> <li>● Samples should be shipped within the storage specifications.</li> </ul> </li> </ul>
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### Cytomegalovirus IgM Antibody (Anti-CMV IgM)

<ul style="list-style-type: none"> <li>○ <b>Testing options</b> <ul style="list-style-type: none"> <li>● <u>CMV IgM EIA</u></li> </ul> </li> </ul> <p><b>Manufacturer / Methodology:</b> Bio-Rad Laboratories / EIA</p> <p><b>Testing Days:</b> Monday, Wednesday, Friday</p> <p><b>CPT Code:</b> 86645</p>	<ul style="list-style-type: none"> <li>○ <b>Specimen Volume (excluding red cell volume):</b> 0.5 mL</li> <li>○ <b>Specimen Types:</b> <ul style="list-style-type: none"> <li>● Serum</li> </ul> </li> <li>○ <b>Storage Instructions:</b> <ul style="list-style-type: none"> <li>● 2-8°C up to 48 hours</li> <li>● ≤ -10°C after 48 hours</li> </ul> </li> <li>○ <b>Shipping Requirements:</b> <ul style="list-style-type: none"> <li>● Samples should be shipped within the storage specifications</li> </ul> </li> </ul> <p><b>NOTE:</b> Serum must be removed from cells within 48 hours of collection</p>
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### Cytomegalovirus IgG Antibody (Anti-CMV IgG)

<ul style="list-style-type: none"> <li>○ <b>Testing options</b> <ul style="list-style-type: none"> <li>● <u>CMV IgG EIA</u></li> </ul> </li> </ul> <p><b>Manufacturer / Methodology:</b> Bio-Rad Laboratories / EIA</p> <p><b>Testing Days:</b> Monday, Wednesday, Friday</p> <p><b>CPT Code:</b> 86644</p>	<ul style="list-style-type: none"> <li>○ <b>Specimen Volume (excluding red cell volume):</b> 0.5 mL</li> <li>○ <b>Specimen Types:</b> <ul style="list-style-type: none"> <li>● Serum</li> </ul> </li> <li>○ <b>Storage Instructions:</b> <ul style="list-style-type: none"> <li>● 2-8°C up to 48 hours</li> <li>● ≤ -10°C after 48 hours</li> </ul> </li> <li>○ <b>Shipping Requirements:</b> <ul style="list-style-type: none"> <li>● Samples should be shipped within the storage specifications</li> </ul> </li> </ul> <p><b>NOTE:</b> Serum must be removed from cells within 48 hours of collection</p>
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## Nucleic Acid Testing (NAT)

### COBAS MPX Test (HIV/HCV/HBV PCR)

- **Testing options**
  - MPX PCR

**NOTE:** Test result reports will include three separate test results for the individual assays HCV PCR, HBV PCR, and HIV PCR

**Manufacturer / Methodology:**

Roche Molecular Systems, Inc / RNA and DNA Polymerase Chain Reaction

**Testing Days:**

Monday thru Saturday

**CPT Code(s):**

HIV PCR – 87535  
 HCV PCR – 87521  
 HBV PCR – 87516

**\*EDTA is the recommended specimen, the other anticoagulants have more stringent storage requirements that are difficult to comply with when shipping specimens for testing. Please call the lab for the requirement if needed.**

○ **Specimen Volume:**

- Whole blood tube – 1 full 7 mL tube
- Aliquot – 2 mL

○ **Specimen Types:**

- Serum
- Plasma (EDTA\*, CPD, CPDA-1, CP2D, and 4% Sodium Citrate), PPT

○ **Storage Instructions:**

**NOTE:** Specimens must be centrifuged within 72 hours of collection or be removed from cells if it will not be received by the testing lab within the 72 hours

EDTA only:

- 2-30°C for 24 hours, then 48 hours at 2-25 °C, or 3 days at 2-25 °C
- 2-8°C up to 12 days
- ≤ -18°C after 12 days, not to exceed 12 months
- 3 Freeze / Thaw cycles

SERUM only:

- 2-30°C for 24 hours, then 48 hours at 2-25 °C, or 3 days at 2-25 °C
- 2-8°C up to 7 days
- ≤ -18°C after 7 days, not to exceed 30 months
- 3 Freeze / Thaw cycles

○ **Shipping Requirements:**

- Samples should be shipped within the storage specifications

### COBAS WNV Test (WNV PCR)

- **Testing options**
  - WNV PCR

**Manufacturer / Methodology:**

Roche Molecular Systems, Inc / RNA Polymerase Chain Reaction

**Testing Days:**

Monday thru Saturday

**CPT Code:**

87798

**\*EDTA is the recommended specimen, the other anticoagulants have more stringent storage requirements that are difficult to comply with when shipping specimens for testing. Please call the lab for the requirement if needed.**

○ **Specimen Volume:**

- Whole blood tube – 1 full 7 mL tube
- Aliquot – 2 mL

○ **Specimen Types:**

- Plasma (EDTA\*, CPD, CPDA-1, CP2D) PPT

○ **Storage Instructions:**

**NOTE:** Specimens must be centrifuged within 72 hours of collection or be removed from cells if it will not be received by the testing lab within the 72 hours

- 2-30°C for 24 hours, then 48 hours at 2-25 °C, or 3 days at 2-25 °C
- 2-8°C up to 12 days
- ≤ -18°C after 12 days, not to exceed 12 months
- 3 Freeze / Thaw cycles

○ **Shipping Requirements:**

- Samples should be shipped within the storage specifications

## Nucleic Acid Testing (NAT) (Cont'd)

### COBAS Babesia Test (Babesia PCR)

<ul style="list-style-type: none"> <li>○ <b>Testing options</b> <ul style="list-style-type: none"> <li>● <u>Babesia PCR</u></li> </ul> </li> </ul> <p><b>Manufacturer / Methodology:</b> Roche Molecular Systems, Inc / RNA and DNA Polymerase Chain Reaction</p> <p><b>Testing Days:</b> Monday thru Saturday</p> <p><b>CPT Code:</b> Not Available</p>	<ul style="list-style-type: none"> <li>○ <b>Specimen Volume:</b> <ul style="list-style-type: none"> <li>● Roche Whole Blood Collection Tube – 1 full 7.7 mL tube</li> <li>● EDTA whole blood tube – 1 full 7 mL tube</li> </ul> </li> <li>○ <b>Specimen Types:</b> <ul style="list-style-type: none"> <li>● Roche Whole Blood Collection Tube</li> <li>● EDTA whole blood tube</li> </ul> </li> <li>○ <b>Storage Instructions:</b> Roche Whole Blood Collection Tube           <ul style="list-style-type: none"> <li>● 2-30°C for 24 hours, then 48 hours at 2-25 °C, or 3 days at 2-25 °C</li> <li>● 2-8°C up to 60 days</li> <li>● (-15°C to -25°C) up to 12 months, if frozen within the first 12 days</li> <li>● 3 Freeze / Thaw cycles</li> </ul>           EDTA whole blood tube           <ul style="list-style-type: none"> <li>● 2-30°C for 24 hours, then 48 hours at 2-25 °C, or 3 days at 2-25 °C</li> <li>● 2-8°C up to 12 days</li> </ul> </li> <li>○ <b>Shipping Requirements:</b> <ul style="list-style-type: none"> <li>● Samples should be shipped within the storage specifications</li> </ul> </li> </ul>
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### Procleix ZIKA Virus Test (ZIKA PCR)

<ul style="list-style-type: none"> <li>○ <b>Testing options</b> <ul style="list-style-type: none"> <li>● <u>ZIKA PCR</u></li> </ul> </li> </ul> <p><b>Manufacturer / Methodology:</b> Grifols Diagnostic Solutions, Inc./ RNA Polymerase Chain Reaction</p> <p><b>Testing Days:</b> Monday thru Friday</p> <p><b>CPT Code:</b> 87662</p> <div style="background-color: #e0e0e0; padding: 5px; text-align: center; margin-top: 10px;"> <b>Sent to ViroMed / Labcorp for testing</b> </div>	<ul style="list-style-type: none"> <li>○ <b>Specimen Volume:</b> <ul style="list-style-type: none"> <li>● Whole blood tube – 1 full 4 mL tube</li> <li>● Aliquot – 2 mL</li> </ul> </li> <li>○ <b>Specimen Types:</b> <ul style="list-style-type: none"> <li>● Plasma (EDTA), PPT</li> </ul> </li> <li>○ <b>Storage Instructions:</b> <b>NOTE:</b> Specimens must be centrifuged within 72 hours of collection or be removed from cells if it will not be received by the testing lab within the 72 hours           <ul style="list-style-type: none"> <li>● 2-30°C for 24 hours, then 48 hours at 2-25 °C, or 3 days at 2-25 °C</li> <li>● 2-8°C up to 13 days</li> <li>● ≤ -20°C after 13 days, not to exceed 30 days</li> </ul> </li> <li>○ <b>Shipping Requirements:</b> <ul style="list-style-type: none"> <li>● Samples should be shipped within the storage specifications</li> </ul> </li> </ul>
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## Miscellaneous

### Blood Type (ABO Rh - Blood Type)

<ul style="list-style-type: none"> <li>○ <b>Testing options</b> <ul style="list-style-type: none"> <li>● <u>Blood Type</u></li> </ul> </li> </ul> <p><b>Primary Method Manufacturer:</b> Diagast</p> <p><b>Backup Method Manufacturer:</b> Immucor, Inc</p> <p><b>Methodology:</b> Agglutination</p> <p><b>Testing Days:</b> Monday thru Saturday</p> <p><b>CPT Code(s):</b> ABO – 86900 / Rh – 86901</p>	<ul style="list-style-type: none"> <li>○ <b>Specimen Volume:</b> <ul style="list-style-type: none"> <li>● Whole blood tube – 1 full 4 mL tube (automated)</li> </ul> </li> <li>○ <b>Specimen Types:</b> <ul style="list-style-type: none"> <li>● Plasma (EDTA)</li> </ul> </li> <li>○ <b>Storage Instructions:</b> <ul style="list-style-type: none"> <li>● 2-8°C up to 5 days (automated)</li> <li>● Do NOT freeze samples</li> </ul> </li> <li>○ <b>Shipping Requirements:</b> <ul style="list-style-type: none"> <li>● Samples should be shipped within the storage specifications</li> </ul> </li> </ul>
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### Detection of Red Cell Antibodies (Red Cell Antibody)

<ul style="list-style-type: none"> <li>○ <b>Testing options</b> <ul style="list-style-type: none"> <li>● <u>Red Cell Antibody Screen</u></li> </ul> </li> </ul> <p><b>Manufacturer / Methodology:</b> Immucor, Inc. / Capture-R Ready Screen – solid phase - automated</p> <p><b>Testing Days:</b> Monday thru Saturday</p> <p><b>CPT Code(s):</b> Screen – 86850 / Aby ID - 86870</p> <div style="background-color: #f0f0f0; padding: 5px; text-align: center; margin-top: 10px;"> <p><b>Sent to the MBC Reference Lab for ID if positive (if requested)</b></p> </div>	<ul style="list-style-type: none"> <li>○ <b>Specimen Volume (excluding red cell volume):</b> 1.0 mL</li> <li>○ <b>Specimen Types:</b> <ul style="list-style-type: none"> <li>● Serum</li> <li>● Plasma (EDTA, ACD, CPD, CPDA-1, CP2D)</li> </ul> </li> <li>○ <b>Storage Instructions:</b> <ul style="list-style-type: none"> <li>● 1-10°C up to 7 days</li> <li>● ≤ -20°C after 7 days</li> </ul> </li> <li>○ <b>Shipping Requirements:</b> <ul style="list-style-type: none"> <li>● Shipping conditions not specified</li> </ul> </li> </ul>
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### Sickle Heme Sickle Cell Test (Sickle Cell Screen – Hemoglobin S)

<ul style="list-style-type: none"> <li>○ <b>Testing options</b> <ul style="list-style-type: none"> <li>● <u>Sickle Cell Screen</u></li> </ul> </li> </ul> <p><b>Manufacturer / Methodology:</b> MichClone Associates, Inc. / Hemoglobin Solubility</p> <p><b>Testing Days:</b> Monday thru Friday</p> <p><b>CPT Code:</b> 85660</p> <div style="background-color: #f0f0f0; padding: 5px; text-align: center; margin-top: 10px;"> <p><b>Sent to the MBC Reference Lab for testing</b></p> </div>	<ul style="list-style-type: none"> <li>○ <b>Specimen Volume:</b> <ul style="list-style-type: none"> <li>● Whole blood tube – 1 full 4 mL tube</li> </ul> </li> <li>○ <b>Specimen Types:</b> <ul style="list-style-type: none"> <li>● Plasma (EDTA, CPD, or donor unit segment)</li> </ul> </li> <li>○ <b>Storage Instructions:</b> <ul style="list-style-type: none"> <li>● 2-8°C up to 4 weeks</li> </ul> </li> <li>○ <b>Shipping Requirements:</b> <ul style="list-style-type: none"> <li>● Shipping conditions not specified</li> </ul> </li> </ul>
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### Miscellaneous (Cont'd)

#### Chlamydia trachomatis (Chlamydia) / Neisseria Gonorrhoeae (Gonorrhea)

<ul style="list-style-type: none"> <li>○ <b>Testing options</b> <ul style="list-style-type: none"> <li>● <u>Chlamydia / Gonorrhea</u></li> </ul> </li> </ul> <p><b>Manufacturer / Methodology:</b> Hologic (Gen-Probe, Inc.) / APTIMA Combo 2 Assay</p> <p><b>Testing Days:</b> Daily</p> <p><b>CPT Code(s):</b> Chlamydia – 87491 Gonorrhea – 87591</p> <p style="text-align: center; background-color: #f0f0f0;"><b>Sent to ViroMed / Labcorp for testing</b></p>	<ul style="list-style-type: none"> <li>○ <b>Specimen Volume:</b> <ul style="list-style-type: none"> <li>● <b>Urine</b> – MUST be filled between the black lines on the collection tube</li> <li>● <b>Swab</b> – MUST contain the swab supplied in the collection tube</li> </ul> </li> <li>○ <b>Specimen Types:</b> <ul style="list-style-type: none"> <li>● Urine (APTIMA collection device supplied)</li> <li>● Endocervical / Urethral swab (APTIMA collection device supplied)</li> </ul> </li> <li>○ <b>Storage Instructions:</b> <ul style="list-style-type: none"> <li>● <b>Urine:</b> <ul style="list-style-type: none"> <li>● 2-30°C up to 30 days</li> <li>● -20°C to -70°C up to 12 months</li> </ul> </li> <li>● <b>Swab:</b> <ul style="list-style-type: none"> <li>● 2-30°C up to 60 days</li> <li>● -20°C to -70°C up to 6 months</li> </ul> </li> </ul> </li> <li>○ <b>Shipping Requirements:</b> <ul style="list-style-type: none"> <li>● <b>Urine:</b> <ul style="list-style-type: none"> <li>● 2-30°C up to 30 days</li> </ul> </li> <li>● <b>Swab:</b> <ul style="list-style-type: none"> <li>● 2-30°C up to 60 days</li> </ul> </li> </ul> </li> </ul>
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#### HLA Class I /II Antibody

<ul style="list-style-type: none"> <li>○ <b>Testing options</b> <ul style="list-style-type: none"> <li>● <u>HLA Class I/II Antibody Screen</u></li> </ul> </li> </ul> <p><b>Manufacturer / Methodology:</b> Immucor / ELISA</p> <p><b>Testing Days:</b> Monday thru Friday</p> <p><b>CPT Code:</b> 86807</p> <p style="text-align: center; background-color: #f0f0f0;"><b>Sent to Rhode Island Blood Center for testing</b></p>	<ul style="list-style-type: none"> <li>○ <b>Specimen Volume (excluding red cell volume):</b> 1.0 mL</li> <li>○ <b>Specimen Types:</b> <ul style="list-style-type: none"> <li>● Serum</li> <li>● Plasma (EDTA)</li> </ul> </li> <li>○ <b>Storage Instructions:</b> <ul style="list-style-type: none"> <li>● <b>Whole blood before centrifugation:</b> <ul style="list-style-type: none"> <li>● RT (21-26°C) up to 4 days</li> <li>● 2-8°C up to 4 days</li> </ul> </li> <li>● <b>Whole blood after centrifugation:</b> <ul style="list-style-type: none"> <li>● 2-8°C up to 5 days</li> </ul> </li> <li>● <b>Removed from cells:</b> <ul style="list-style-type: none"> <li>● 2-8°C up to 7 days</li> <li>● ≤ -20°C up to 3 years</li> <li>● Avoid multiple Freeze / Thaw cycles</li> </ul> </li> </ul> </li> <li>○ <b>Shipping Requirements:</b> <ul style="list-style-type: none"> <li>● Shipping conditions not specified</li> </ul> </li> </ul>
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