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**Distribution:**

**Microbiology Instrumentation Manual**

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**Document Name:** BACTEC FX Maintenance

**Approved By:**

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**Status:** **APPROVED**

**PURPOSE:** The BACTEC FX Instrument is used with BACTEC culture vials to detect sepsis and bacteremia in patients. Maintenance is performed to ensure accuracy and precision of the various components of the BACTEC FX Instrument.

**SUPPLIES:**

- BACTEC™ FX Instrument
- BACTEC™ Plus Aerobic/F Culture Vials (**blue top**)
- BACTEC™ Lytic/10 Anaerobic/F Culture Vials (**purple top**)
- BACTEC™ Peds Plus™/F Culture Vials (**pink top**)

**SPECIAL SAFETY PRECAUTIONS:**

Containment Level 2 facilities, equipment, and operational practices for work involving infectious or potential infectious materials or cultures.

- Lab gown must be worn when performing activities with potential pathogens.
- Gloves must be worn when direct skin contact with infected materials is unavoidable.
- Eye protection must be used when there is a known or potential risk of exposure of splashes.
- All procedures that may produce aerosols, or involve high concentrations or large volumes should be conducted in a biological safety cabinet (BSC).
- The use of needles, syringes and other sharp objects should be strictly limited.

All patient specimens are assumed to be potentially infectious. Universal precautions must be followed. Since viable micro-organisms are used, all cultures must be handled with appropriate precautions. All equipment in contact with cultures should be decontaminated by appropriate methods.

**QUALITY CONTROL:**

- Refer to MIC60010 – Microbiology Quality Control for quality control procedures.
- Refer to MIC70500 – Maintenance Record – BACTEC FX

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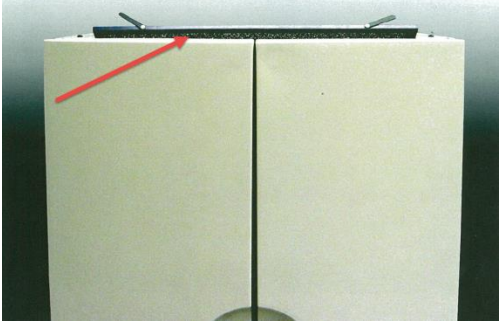
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**PROCEDURE INSTRUCTIONS:**

Step	Action
<b>Daily BACTEC FX maintenance</b>	
<b>1</b>	<p><b><u>Record Drawer A &amp; B digital temperatures (displayed on touch screen):</u></b></p> <ol style="list-style-type: none"> <li>In the Maintenance Test tab → view the temperature displayed below the “Drawer Temperature and Status” on the touch screen.</li> <li>Record on MIC70500 – Maintenance Record – BACTEC FX.</li> </ol>
<b>2</b>	<p><b><u>Record drawer thermometer temperatures and Drawer A &amp; B internal LEDs:</u></b></p> <ol style="list-style-type: none"> <li>Still in Maintenance tab → open Drawer A (drawer on left side) → “Station LEDs” → Tap the “Red” button → View Drawer. All the stations should glow red. Wait 5 seconds (lights turn off).</li> <li>Keep the drawer open, tap the “Green” button → View Drawer. All the stations should glow red. Wait 5 seconds (lights turn off).</li> <li>Press the “on/off” button on the temperature probe to turn it on.</li> <li>Press the on/off button again to turn the probe off before closing the drawer.</li> <li>Close Drawer.</li> <li>Record on MIC70500 – Maintenance Record – BACTEC FX.</li> </ol>
<b>3</b>	<p><b><u>Check the Alarm function:</u></b></p> <ol style="list-style-type: none"> <li>Ensure both drawers are closed. Tap the “Alarm” button on the Maintenance Test tab (see below).</li> <li>Record on MIC70500 – Maintenance Record – BACTEC FX.</li> </ol>
<b>4</b>	<p><b><u>Check system status indicators:</u></b></p> <ol style="list-style-type: none"> <li>Tap the “Status” button on the Maintenance Test tab.</li> <li>Both handles should glow the three status colors (red, green and yellow).</li> <li>Record on MIC70500 – Maintenance Record – BACTEC FX.</li> </ol>
<b>5</b>	<p><b><u>Print Inventory Report:</u></b></p> <ol style="list-style-type: none"> <li>Reports → Current Inventory → Print</li> <li>Check report to ensure all specimens have an accession number and patient information. If information is missing, bottle needs to be removed and investigated. Likely the specimen was not accessioned or collected and received.</li> </ol>
<b>6</b>	When finished, touch the “Status” tab to return to the “Status” screen for normal operations.

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Step	Action
<b>Monthly BACTEC FX maintenance</b>	
1	<p><b><u>Change air filters:</u></b></p> <ul style="list-style-type: none"><li>• Left Access Panel (Silver filter)</li></ul>  <ul style="list-style-type: none"><li>• Top of Instrument (Black filter)</li></ul>  <div data-bbox="859 443 1414 787" style="border: 1px solid black; padding: 10px;"><ul style="list-style-type: none"><li>• Rinse filters with tap water and place on towel to air dry.</li><li>• Use backup filters to replace into the analyzer</li><li>• Once filters that were taken out are dry, replace them at the instrument for use next month.</li></ul></div>

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**REFERENCES:**

- BACTEX FX Instrument User Manual, 2011/02

**REVISION HISTORY:**

REVISION	DATE	Description of Change	REQUESTED BY
1.0	06-Nov-17	Initial Release	L. Steven
2.0	26-Mar-19	Updated to reflect removal of DVD updating in EpiCenter	L. Steven

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