Welcome to the Safe World of TECTA™ Technology

Rapid Microbial Detection

Features & Benefits

- Rapid alerting with no fixed incubation delay
- High reliability with minimal handling of samples
- No sample preparation or visual interpretation of results required
- Initiate a test anytime, with automatic reporting of results that are sent directly via email notification to any device immediately upon detection
- Simple operation that does not require specialized personnel
- High dynamic range eliminates need for multiple dilutions
- Direct testing of turbid samples
- Industry-standard enzyme indicators of target bacteria
- Self-contained desktop packaging with touchscreen control

TECTA™ B4 AUTOMATED MICROBIOLOGY DETECTION SYSTEM

- The TECTA™ B4 is a complete, self-contained automated microbiology testing system capable of providing laboratory-grade results on-site with unprecedented time-to-result performance.
- Full automation of the test analysis and interpretation processes eliminates the need for subjective, visual interpretation of results. An objective, written test report is produced for each sample tested.
- Extreme ease-of-use means that even non-technical personnel can initiate testing and perform all required quality assurance procedures to ensure laboratory-grade test results.
TECTA™ B4 Automated Microbiology Detection System

Rapid, automatic microbiological testing with unprecedented ease-of-use and time-to-result performance.

Specifications

Operating Principal
TECTA™ B4 is a directed enzyme-substrate method combined with a patented Polymer Partition technology which isolates the optical detection path from the water sample. This innovation allows continuous automated interpretation of the sample and provides robust results that are insensitive to water sample turbidity and color.

Target Organisms
- Broad-spectrum E. coli (glucuronidase enzyme)
- Total Coliforms (galactosidase enzyme)
- Fecal Coliforms (galactosidase enzyme)
- Enterococcus (glucosidase enzyme)

Instrument Capacity
Up to 4 simultaneous tests for presence/absence with optional quantitative reporting in CFU per 100ml on positive results.

Sample Handling
Manual sample acquisition with Direct-to-Test capability eliminates sample handling and mixing of reagents.

Range
Dynamic range of <1 to >1⁸ CFU in 100 ml without requirement for sample dilution.

Operating Modes
Fully automated monitoring, interpretation and reporting of results. All results available locally or remotely via email (network connection required). Automatic system confirmation and calibration.

Run Mode – Incubation and interpretation in 2-18 hours.

Read Mode – Interpretation of pre-incubated samples in 60 seconds.

Typical Detection Times

<table>
<thead>
<tr>
<th>CFU/100 ml</th>
<th>TECTAlert-ECA</th>
<th>TECTAlert-FCA</th>
<th>TECTAlert-CCA</th>
<th>TECTAlert-ENA</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 1</td>
<td>within 16 hrs</td>
<td>within 18 hrs</td>
<td>within 18 hrs</td>
<td>within 24 hrs</td>
</tr>
<tr>
<td>100</td>
<td>within 9 hrs</td>
<td>within 10 hrs</td>
<td>within 12 hrs</td>
<td>within 12 hrs</td>
</tr>
<tr>
<td>1,000</td>
<td>within 8 hrs</td>
<td>within 9 hrs</td>
<td>within 11 hrs</td>
<td>within 10 hrs</td>
</tr>
<tr>
<td>10⁶</td>
<td>within 4 hrs</td>
<td>within 5 hrs</td>
<td>within 7 hrs</td>
<td>within 4 hrs</td>
</tr>
</tbody>
</table>

User Interface
7-inch (17.7 cm) front touch-screen display controls all functions. USB port for keyboard (optional).

Power Supply
120 VAC / 220 VAC versions available (must specify).

Weight (installed)
Approximately 7.8 Kg / 17 lbs

Physical Dimensions
- Height: 275 mm / 11 inches
- Maximum height (open for cleaning): 525 mm / 21 inches
- Width: 305 mm / 12 inches
- Depth (front to back): 486 mm / 18 inches

Ordering Information
TECTA™B4: Automated microbiology testing system with 4 simultaneous tests.

Test Cartridges
All test 100 ml, sample Direct-to-Test, pre-filled with media and reagents (48 tests / box).

- TECTAlert ECA: Rapid E. coli test
- TECTAlert FCA: Fecal Coliform test
- TECTAlert CCA: Combined E. coli and Total Coliform test
- TECTAlert ENA: Enterococcus test

Additional tests under development.

The TECTA™ System is the first automated microbiological testing system to have been approved by U.S. EPA for microbiological regulatory compliance testing required under the national primary drinking water regulations that are part of the Safe Drinking Water Act, including Total Coliform Rule, the Revised Total Coliform Rule,