

Welcome to the Safe World of TECTA™ Technology

Rapid Microbial Detection

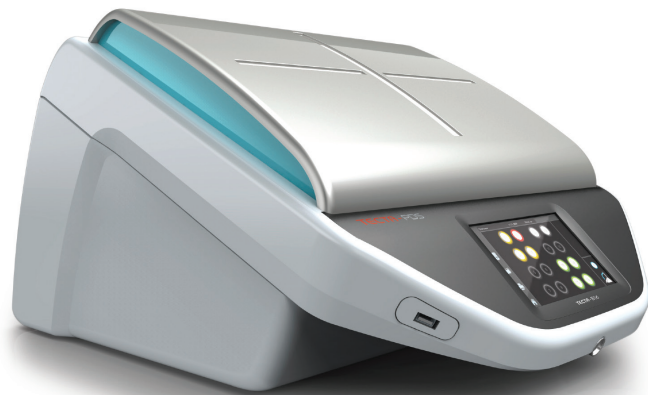
E. coli
Detected!



U.S. EPA approved

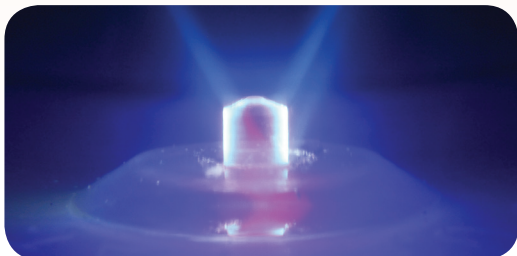
Features & Benefits

- 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 touch-screen control



TECTA™ B16 AUTOMATED MICROBIOLOGY DETECTION SYSTEM

- > The TECTA™ B16 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™ B16 Automated Microbiology Detection System

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

Specifications

Operating Principal	TECTA™ B16 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 colour.				
Target Organisms	<ul style="list-style-type: none">• Broad-spectrum <i>E. coli</i> (glucuronidase enzyme)• Total Coliforms (galactosidase enzyme)• Fecal Coliforms (galactosidase enzyme)• Enterococcus (glucosidase enzyme)				
Instrument Capacity	Up to 16 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 >10 ⁸ 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		TECTAlert-ECA	TECTAlert-FCA	TECTAlert-CCA	TECTAlert-ENA
		<i>E. coli</i>	Fecal Coliform	Total Coliform & <i>E. coli</i>	Enterococcus
	< 1 CFU/100 ml	within 16 hrs	within 18 hrs	within 18 hrs	within 24 hrs
	100 CFU/100 ml	within 9 hrs	within 10 hrs	within 12 hrs	within 12 hrs
	1,000 CFU/100 ml	within 8 hrs	within 9 hrs	within 11 hrs	within 10 hrs
	10 ⁶ CFU/100 ml	within 4 hrs	within 5 hrs	within 7 hrs	within 4 hrs
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 21 Kg / 46.3 lbs				
Physical Dimensions	Height:	347 mm / 14 inches			
	Maximum height (open for cleaning):	628 mm / 25 inches			
	Width:	480 mm / 19 inches			
	Depth (front to back):	623 mm / 25 inches			



Ordering Information

TECTA™ B16: Automated microbiology testing system with 16 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.



TECTA™ B16 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, and the Groundwater Rule.

Authorised distributor

In Australia:
For customer service, call 1300-735-292
To fax an order, use 1800-067-639
To email an order, ordersau@thermofisher.com

In New Zealand:
For customer service, call 0800-933-966
To fax an order, use 0800-329-246
To email an order, ordersnz@thermofisher.com

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