

Tecta B16 Instrument

Automated microbiology detection system

- The Tecta® B16 system is **U.S. EPA approved** for the presence/absence detection of *E. coli* and total coliforms.*
- **A complete, self-contained automated microbiology testing system** capable of providing laboratory-grade results on-site with unprecedented time-to-result performance. The Tecta B16 Instrument can run up to 16 samples at once, using multiple incubation temperatures and test types.
- **Full automation** of test analysis and interpretation eliminates the need for subjective, visual interpretation of results. A written email is produced for each sample tested.
- Enhanced 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**.

For more information, visit **idexx.com/tecta** or call 1-800-321-0207.

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Tecta B16 Instrument specifications

Operating principal	The Tecta® B16 Instrument uses a directed enzyme-substrate method combined with a patented polymer partition technology that 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	• *E. coli* (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 or MPN per 100 mL on positive results.
Range	Dynamic range of <1 to 10^8 CFU in 100 mL without requirement for sample dilution.
Operating modes	Run mode: Incubation and interpretation in 2–24 hours, depending on test type. Read mode: Interpretation of preincubated samples in 60 seconds.
User interface	7-in (17.7 cm) front touch-screen display controls all functions. USB port for keyboard, mouse, and/or barcode scanner (optional).
Power supply	115 V and 230 V instruments available.
Weight (installed)	Approximately 46.3 lb (21 kg)
Physical dimensions	Height: 14 in (347 mm) Maximum height (open for cleaning): 25 in (628 mm) Width: 19 in (480 mm) Depth (front to back): 25 in (623 mm)

Typical detection times

Bacterial concentration	**Tectalert EC/TC (CCA)** *E. coli* and total coliforms	**Tectalert EC (ECA)** *E. coli*	**Tectalert FC (FCA)** Fecal coliforms	**Tectalert ENT (ENA)** *Enterococcus*
< 1 CFU/100 mL	within 18 hours	within 16 hours	within 18 hours	within 24 hours
100 CFU/100 mL	within 12 hours	within 9 hours	within 10 hours	within 12 hours
1,000 CFU/100 mL	within 11 hours	within 8 hours	within 9 hours	within 10 hours
10^6 CFU/100 mL	within 7 hours	within 4 hours	within 5 hours	within 4 hours

The Tectalert EC/TC Test is approved by the U.S. EPA for detection of *E. coli* and total coliforms in drinking water.*

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*Tectalert EC/TC medium and Tecta instruments are U.S. EPA approved at 40 CFR Part 141, listed as a method in *Presence/Absence Method for the Simultaneous Detection of Total Coliforms and* Escherichia coli (E. coli) *in Drinking Water.*

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