



Tecta B16 Instruments

Introducing IDEXX Tecta

Automated Microbiology Detection System

The first fully automated, on-site total coliform and *E. coli* detection system. The Tecta* instruments incubate samples and continuously monitor for positive results. Test results are transmitted via email in real time.



Tecta B4 Instruments

Effortless detection and quantification of *E. coli*, coliforms, and more

- **EPA approved.** The Tectalert EC/TC Test is approved by the U.S. EPA for detection of *E. coli* and total coliforms in drinking water.†
- **Every second counts.** Tecta tests deliver results fast, to anyone, anywhere, anytime. The Tecta EC/TC Test offers results in 2–18 hours, depending on contamination levels.
- **Weekend testing solved.** Automated incubation, sample interpretation, and results notification save your staff from weekend trips to the lab.
- **Automation unlocked.** The Tecta instruments interpret results automatically, eliminating the need for visual reading of results at a specific time.
- **A complete, self-contained automated microbiology testing system** capable of providing laboratory-grade results on-site with unprecedented time-to-result performance. The Tecta B4 Instrument can run up to 4 samples at once.
- **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.

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	Tectalert <i>E. coli</i> and Total Coliforms (EC/TC)	Tectalert <i>E. coli</i>	Tectalert Fecal Coliforms	Tectalert <i>Enterococcus</i>
Product number	98-0018012-00	98-0018013-00	98-0018014-00	98-0018015-00
Catalog number	TECTA-CCA-48	TECTA-ECA-48	TECTA-FCA-48	TECTA-ENA-48
Analyte	<i>E. coli</i> and total coliforms	<i>E. coli</i>	Fecal coliforms	<i>Enterococcus</i>
Detection limit	<1 CFU/100 mL	<1 CFU/100 mL	<1 CFU/100 mL	<1 CFU/100 mL
Incubation temperature	35 ± 0.5 °C	41.5 ± 0.5 °C	44.5 ± 0.2 °C	41.5 ± 0.5 °C
Sample size	100 mL	100 mL	100 mL	100 mL
Time to results[‡]	18hr00 for <1 CFU EC/TC <10hr30 for 100 CFU <i>E. coli</i> <12hr15 for 100 CFU TC	16hr00 for <1 CFU <9hr00 for 100 CFU <8hr00 for 1,000 CFU	18hr00 for <1 CFU <10hr15 for 100 CFU <9hr00 for 1,000 CFU	24hr00 for <1 CFU <9hr45 for 100 CFU <8hr30 for 1,000 CFU

Typical detection times

Bacterial concentration	Tectalert EC/TC (CCA) <i>E. coli</i> and total coliforms	Tectalert EC (ECA) <i>E. coli</i>	Tectalert FC (FCA) Fecal coliforms	Tectalert ENT (ENA) <i>Enterococcus</i>
< 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

Recognitions / Approvals

Canada, Health Canada – 2020 – Drinking water, presence/absence, *E. coli* by Tecta EC/TC; Guideline for Canadian Drinking Water Quality, *E. coli*; <https://www.canada.ca/en/health-canada/services/publications/healthy-living/guidelines-canadian-drinking-water-quality-guideline-technical-document-escherichia-coli.html>

New Zealand – 2016 – Drinking water, presence/absence, *E. coli* by Tecta EC/TC; Tecta Press Release on the acceptance of Tecta from the New Zealand Ministry of Health; Available by request html

Philippines – 2016 – Drinking water, presence/absence, total coliform and *E. coli* by Tecta EC/TC; Letter from the Department of Health national Reference Laboratory; Available by request

South Korea – 2012 – Drinking water, presence/absence, *E. coli* and B16 Instrument; Letter from the National Institute of Environmental Research (NIER); Available by request

United States – 2017 – U.S. EPA Approval of drinking water, by Tecta EC/TC Medium and the Tecta Instrument [B16]: A Presence/Absence Method for the Simultaneous Detection of Total Coliform and *Escherichia coli* (*E. coli*) in Drinking Water, March 20, 2017, Version 2.0. <https://www.govinfo.gov/content/pkg/FR-2017-07-27/pdf/2017-15380.pdf>

Publications

Brown, S.R., Marcotte, E. J-P., Dunkinson, C.E., Aston, W.P., Gallant, P.J., and Wilton, D. (2010, January). An Automated Detection Technology for On-Site *E. coli* and Coliform Bacteria Monitoring. (Tecta EC/TC). Water Environment Federation. 2010(8):7433-7442; <https://www.accesswater.org/publications/proceedings/298073/an-automated-detection-technology-for-on-site-e-coli-and-coliform-bacteria->

Burnet, J.B., Tuc Dinh, Q., Imbeault, S., Dorner, S., and Prevost, M. (2019, April). Autonomous online measurement of β-D-glucuronidase activity in surface water: is it suitable for rapid *E. coli* monitoring? Water Research, Volume 152; <https://doi.org/10.1016/j.watres.2018.12.060>

Habash, M. and Johns, R. (2009, October). Comparison study of membrane filtration direct count and an automated coliform and *Escherichia coli* detection system for on-site water quality testing. (Tecta EC/TC). J Microbiol. Methods, 79(1):128-130. <https://pubmed.ncbi.nlm.nih.gov/19703500/>

Certification

AOAC International Research Institute – 2022 (Initial approval date 2014, updated annually) – AOAC Performance Tested Certification for Tecta Combined *E. coli* and Total Coliform Test in tap water, well water, lake water, vegetable wash water, bottled water, sugar-free lemon iced tea. Certificate No. 010801; https://members.aoc.org/AOAC_Docs/RI/23PTM/23C_010801_IDEXCanadaEC_ver2.pdf

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