TECHNICAL DATA SHEET

AquaVial EX

Patented nutrient-based detection system for E. coli, Coliform and Enterococcus

Manufactured by ExactBlue Technologies Inc.

E. coli AEX-025

Coliform ACX-025

AquaVial EX is a patented (PCT/CA2021/050834) nutrient based detection system, designed to allow qualitative detection of waterborne microorganisms (Enterococcus, E. coli and Coliforms) in environmental and treated water (drinking, swimming and industrial water). The test uses a combination of advanced filtration techniques and a patented early detection technology to visually detect viable cells of bacteria at concentrations above the set detection limit.

Analytical Performance

Incubation Time (hours)		Detection Limit (from 1 mL sample)	Detection Limit (ASX-025, 10 mL)	Detection Limit (AVX-025, 100 mL)
Incubator: 35–45°C	Ambient: 20–35°C	100 CFU/mL	100 CFU/10 mL	100 CFU/100 mL
5	15	100 CFU/mL	100 CFU/10 mL	100 CFU/100 mL
7	21	10 CFU/mL	10 CFU/10 mL	10 CFU/100 mL
9	24	1 CFU/mL	1 CFU/10 mL	1 CFU/100 mL

1 CFU/10 mL is the detection range when using the 10 mL syringe included in ACX-002 and AEX-002. The sensitive refill kit (ASX-025) allows detection of 1 CFU/10 mL and the very sensitive refill kit (AVX-025) allows detection of 1 CFU/100 mL. Colour change: Purple for Coliform (ACX-025), Indigo for E. coli (AEX-025).

Components

Reagent Vial (included in AEX-025 and ACX-025)

Vial Dimensions	H (cap on): 50mm, 10mm OD
Vial Volume	2.0 mL
Vial Material	Plastic vial with white cap, contains glass ampoule (0.5 mL reagent)
Reagent Volume	0.05g of dry media
Reagent Type	Selective nutrient media and contrast agent
Colour Change	Yellow to Purple (ACX-025) or Indigo (AEX-025)
Chromogenic Dye	Salmon Gal (ACX-025), X-Gluc (AEX-025)
Sample Volume	1 mL

Product Packaging and Storage

Attribute	Value
Kit content	ACX-025 and AEX-025: kits of 25 reagent test vials
Packaging	Silver pouch or white box
Storage	Store in a cool, dry place
Shelf life	2 years from date of manufacturing

EXACTBLUE TECHNOLOGIES INC

490 Sheldon Dr. Cambridge, ON, Canada N1T 2C1

T: 1.866.574.8929 | E: info@exactblue.com

TDS: V4, July-2025