Reference: 6041

Product: E.COLI-COLIFORMS SUPPLEMENT (BOE)

Specification

A sterile selective supplement used for E.coli/Coliform isolation.

🎸 Condalab

Presentation

10 Freeze dried vials Vial with: 3 ± 0.1 g	Packaging Details 22±0.25 x 55±0.5 mm glass vials, tag labelled, White plastic cap - 10 vials per box.	Shelf Life 49 months	Storage 2-25 °C
Composition			
Compositon (g/vial)			
Cefsulodin0.0025 Vancomycin0.0025	NOTE : Each vial is sufficient to supplement 500 ml of medium Base: Chromogenic coliforms agar.		

Description /Technique

Description:

The final purpese of this supplement is increase the selectivity of Chromogenic coliform Agar in order to detect total coliforms and E. coli in water and food samples. Cefsulodin and Vancomycin suppress all the accompanying microbiota, especially *Pseudomonas and Aeromonas spp.*

Technique:

Collect, dilute and prepare samples and volumes as required according to specifications, directives, official standard regulations and/or expected results. Reconstitute the vial with the sterile diluent in aseptic conditions and add it to 500 ml of melted Agar base cooled to 50°C.

Do not overheat once suplemented.

Pour the complete medium into Petri dishes and, once solidified on a flat surface, spread the plates either by streaking or by spiral method. Incubate the plates in aerobic atmosphere at 35 ± 2°C for 24-48h.

ncubation at 44±0.5 °C increases the selectivity of the medium and the specificity for *E.coli* isolation)

After incubation, count all the colonies that have appeared onto the surface of the agar, observing colour development when using a chromogenic base:

E. coli produces a dark blue to violet colonies due to the possession of two enzymes that cleaves the chromogenic substances.

Coliforms bacteria have only one enzyme so they can cleave only a substrate producing salmon/red colonies.

Total coliforms are the sum of E. coli colonies plus the salmon-red colonies.

Presumptive isolation of *E.coli / Coliforms* must be confirmed by further microbiological and biochemical tests.

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Quality control

Physical/Chemical control

White-Gray Color :

pH: at 25ºC

Microbiological control

Reconstitute 1 vial as indicated in COMPOSITION; shake and dissolve completely Add 1 vial to 500 ml of medium base. DO NOT HEAT once supplemented.

Distribute the complete medium, cooled to 50 °C, into 90 mm plates

Incubate according instructions for complete medium indicated in COMPOSITION.

Aerobiosis. Incubation at 35 ± 2 °C, reading at 24-48 hours.

Microoraanism

Escherichia coli ATCC® 25922, WDCM 00013
Salmonella typhimurium ATCC® 14028, WDCM 00031
Enterococcus faecalis ATCC [®] 29212, WDCM 00087
Stph. aureus ATCC® 25923, WDCM 00034
Ps. aeruginosa ATCC [®] 27853

Sterility Control

100 ml TSB and 100 ml Thioglycollate. Incubation 48 hours at 30-35 °C and 48 hours at 20-25 °C: NO GROWTH. Check at 7 days after incubation in same conditions.

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Growth

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