

Reference: DSHB3093

A.B.E. - Technical Data Sheet

Product: Brilliant Green + Novobiocin Selective

Supplement

Specification

Sterile selective supplement used for Salmonella isolation, according to ISO.

Presentation

Packaging Details 10 Freeze dried vials

22±0.25 x 55±0.5 mm glass vials, tag labelled, White plastic cap - 10 vials per box.

49 months 2-25 °C

Storage

Shelf Life

Composition

with: 3 ± 0.1 g

Compositon (g/vial)

Reconstitute the original freeze-dried vial by adding:

Ethanol / Distilled water (3:3)...... 6 ml

NOTE: Each vial is sufficient to supplement 500ml of Muller Kauffmann medium Base.

Description / Technique

Description:

Novobiocin+Brillant green selective supplement is added to Muller-Kauffmann Tetrationate medium base in order to obtain a complete medium for the enrichment of enteric or intestinal pathogens, and for all the members of Salmonella type. Usually this medium is used for the analisys of polluted samples, like faeces, urine, waste water and others.

MKTTn was developed by Muller and later modified by Kauffmann with the addition of ox bile and brilliant green to improve selectivity. The addition of novobiocin was later described by Jeffries to improve inhibition of Proteus species.

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 6ml sterile diluent in aseptic conditions and add it to 500 ml of Muller Kauffmann Medium Base cooled to 50°C, previously added with Iodine solution......4 g / I and Potassium iodide solution.....5 g / I. Do not overheat once suplemented.

Pour the complete medium into tubes and inoculate it.

Incubate the tubes in aerobic atmosphere at $35 \pm 2^{\circ}$ C, lectura a las 18-24 horas.

Incubation times longer than those mentioned above or different incubation temperatures may be required depending on the sample or the specifications.

After incubation, observe turbidity appearing in the tubes.

Subculture any confirmatory, secondary medium by streaking methodology or by spiral method, like, BGA, XLD, Hektoen...for Salmonella isolation.

Enumerate all the colonies that have appeared onto the surface of the agar.

Presumptive isolation of Salmonella sp. must be confirmed by further microbiological and biochemical tests.

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Quality control

Physical/Chemical control

Color: Green

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 10 ml tubes

Aerobiosis. Incubation at 37 ± 1 °C, reading after 24 ± 3 h

Microorganism

Enterococcus faecalis ATCC® 29212, WDCM 00087 Escherichia coli ATCC® 8739, WDCM 00012 S. typhimurium (14028) + E. coli (8739) + Ps. (27853) S. enteritidis (13076) + E. coli (8739) + Ps. (27853)

Growth

Inhibition. Confirm in TSA at 37°C±1 reading 24 ± 3h. Partially Inhibited; ≤ 100 CFU Recovery in TSA Şalmonella coln. charact. in XLD (37°C±1 / 24 ± 3h) ≥ 10 Şalmonella coln. charact. in XLD (37°C±1 / 24 ± 3h) ≥ 10

Sterility control

Add 5 ml of the sample to: 100 ml TSB and 100 ml Thioglycollate. Incubation 48 hours at 30-35 °C and 48 hours at 20-25 °C: NO GROWTH.

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