

E.E Mossel Broth DC

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Selective enrichment of all species of Enterobacteriaceae, according to European Pharmacopoeia 6th Edition Chapter 6
Biological tests and US Pharmacopoeia 30 NF25 2007 2nd Edition Chapters <61> and <62>

Presentation

20 Tubes
Tubo 18 x 145 mm

Packaging Details

Shelf Life Storage
12 8-25°C

COMPOSITION

(Theoretical formula in g/l of demineralized water)

Peptona de Gelatina..... 20.0
D(+) Glucosa..... 10.0
Bilis de buey..... 40.0
Verde brillante..... 0.03
Hidrogenofosfato disódico..... 16.0
Dihidrogenofosfato potásico..... 4.0

PREPARATION

Collect, dilute and prepare samples and volumes as required according to specifications, normatives and/or expected results. Dispense liquid medium in appropriate containers if the original container is of large volume.

Inoculate aseptically the tubes / flasks with the prepared sample or its dilution directly in a proportion 1:1 (V/V) to get a normal strength broth.
Incubate the tubes / flasks tightly closed aerobically at 35±2°C for 24h.
(Incubation times, temperature and sample volumes may vary depending on the sample, on the specifications,...)

Read the turbidity (growth indicator) and, seldom, any change from green colour that indicated sugar fermentation.

Presumptive isolation / recovery of E.coli, Yersinia,... must be confirmed by further microbiological and biochemical assays. This media can be used to inoculate any confirmatory, secondary medium by streaking methodology or by spiral method, like VRBG, XLD...; after proper incubation, enumerate all the colonies that have appeared onto the surface of the agar.

Each laboratory must evaluate the results according to their specifications.

Calculate bacterial count per ml of sample by multiplying the average number of colonies per plate by inverse dilution factor if streaked a diluted sample. Report results as Colony Forming Unit (CFU's) per ml or g along with enrichment and secondary media used, incubation time and temperature.

pH: 7.3±0.2

QUALITY CONTROL

Physical/Chemical control

Color of the media: Green
Aspect: Satisfactory

pH: 7.3±0.2

Weight/Volume: 10 ml (Quantity per unit; in gr for solid products, in ml for liquid products)

Microbiological control

Growth Promotion Test according to European Pharmacopoeia 6th Edition.

Dilute to normal concentration

Aerobiosis. Incubation at 37 °C, reading after 24-48 hours

E. coli ATCC 25922	Good
E. aerogenes ATCC13048	Good
S. enterica ATCC 14028	Good
B. cereus ATCC 11778	Inhibited
S. aureus ATCC 6538	Inhibited

Sterility Control

Incubation 24 h at 32.5 ± 2.5 °C and 72 h at 22.5 ± 2.5 °C: Satisfactory - NO GROWTH

Incubation 7 days at 32.55 ± 2.5°C: Satisfactory result- NO GROWTH

(Sterilized by autoclaving at 121 °C for 15')

BIBLIOGRAPHY

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REACTIVOS PARA DIAGNOSTICO S.L.

J. Tura nº24. Pol. " Mas d'en Cisa".
08181 Sentmenat
Tel. 93.715.45.73 / fax. 93.715.25.58

Date: