

Product Data Sheet

EE BROTH, MOSSEL (ISO 21528-1:2004, ISO 7402:1993)

Product No. GB-DCM-00184-1A

INTENDED USE

For selective enrichment of Enterobacteriaceae in bacteriological examination of foods.

PRODUCT SUMMARY

Enterobacteria Enrichment Broth Mossel is a highly enrichment medium used for bile-tolerant Gram-negative bacteria. It was developed by Mossel, Visser, and Cornelissen to facilitate the growth of Enterobacteriaceae. The medium is used as an enrichment broth, providing a rich environment for the recovery of damaged or injured cells. The composition of EE Broth, Mossel medium is recommended by the ISO, for selective enrichment of Enterobacteriaceae.

Product Specifications

Ingredients	Gms / Ltr
Dehydrated Ox-bile	20.000
Pancreatic digest of Gelatin	10.000
Disodium hydrogen phosphate	6.450
Glucose monohydrate	5.000
Potassium dihydrogen phosphate	2.000
Brilliant green	0.014

PRINCIPLE

The medium contains Pancreatic digest of Gelatin which provides nitrogen, vitamins, and amino acids in the medium. Glucose is the carbon source to enhance organism growth. Dehydrated Ox-bile and Brilliant green are the selective agents inhibiting Gram-positive bacteria, particularly bacilli and fecal streptococci. Sodium phosphate and Potassium phosphate are strong buffering agents.

INSTRUCTION FOR USE

- Dissolve 43.46 grams in 1000ml distilled water.
- Dispense 100ml portions in 250ml flasks or in 10ml portions into tubes. Stopper with cotton plugs or loosefitting caps.
- Gently heat in boiling water at 100°C for 30 minutes with gentle swirling to dissolve the medium completely.

Do Not Autoclave.

Note: Avoid overheating of the medium.

Goslar Biotech, 255A Barking Road East Ham, London E6 1LB, United Kingdom

Email: info@goslarbiotech.com, Website: www.goslarbiotech.com



QUALITY CONTROL SPECIFICATIONS

Appearance of Powder: Light yellow to greenish yellow, Homogeneous free flowing powder
 Appearance of prepared medium: Emerald green coloured, clear solution without any precipitate
 pH (at 25°C) : 7.2±0.2

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Acid production	Incubation Temperature	Incubation Period
Proteus mirabilis	25933	50-100	Luxuriant	Positive reaction, Yellow colour	35-37°C	20-24 Hours
Escherichia coli	25922	50-100	Luxuriant	Positive reaction, Yellow colour	35-37°C	20-24 Hours
Shigella boydii	12030	50-100	Luxuriant	Negative reaction, No colour change	35-37°C	20-24 Hours
Enterobacter aerogenes	13048	50-100	Luxuriant	Positive reaction, Yellow colour	35-37°C	20-24 Hours
Salmonella enteritidis	13076	50-100	Luxuriant	Variable reaction	35-37°C	20-24 Hours
Staphylococcus aureus	25923	≥1000	Inhibited	-	35-37°C	20-24 Hours

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

This product is for research use only.