

## EMB Agar

**Product:** EMB Agar (Eosin Methylene Blue Agar)

**Catalogue Number:** i23068

**Content:** 500 g

**Use:** EMB Agar is a slightly selective and differential plating medium for the isolation of gram-negative enteric bacteria.

**Principle:** The eosin Y and methylene blue dyes in Levine EMB Agar render the medium slightly selective in that they inhibit gram-positive bacteria to a limited degree. These dyes also play a role in differentiating between lactose fermenters and lactose nonfermenters due to the presence or absence of dye uptake in the bacterial colonies. Coliforms, as lactose-fermenting organisms, are visualized as blue-black colonies, whereas colonies of *Salmonella* and *Shigella*, as lactose nonfermenters, appear colorless, transparent or amber. Some gram-positive bacteria, such as fecal streptococci, staphylococci and yeasts, will grow on this medium and usually form pinpoint colonies. A number of nonpathogenic, lactose-nonfermenting gram-negative bacteria will grow on this medium and must be distinguished from the pathogenic strains by additional biochemical tests.

### Composition g / l:

Peptic digest of animal tissue	10.000
Dipotassium phosphate	2.000
Lactose	5.000
Sucrose	5.000
Eosin – Y	0.400
Methylene blue	0.065
Agar	13.500

**Dehydrated Appearance:** Fine, homogeneous, may contain up to a large amount of minute to small dark red purple particles.

**Solution:** 3.74% solution, soluble in purified water upon boiling. Solution is medium to dark, green orange brown, hazy.

**Prepared Appearance:** Medium to dark, green orange brown, hazy.

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**pH at 25 °C:**  $7.1 \pm 0.2$

**Storage:** Store at 15-30°C in tightly closed container and the prepared medium at 2 - 8°C. Use before expiry date on the label

**Shelf life:** If stored under recommended conditions the unopened container has a shelf-life of 3 years after day of production (see expiry date on the label).