InTray™ EMB (Eosin Methylene Blue agar)

For the selective isolation and differentiation of gram-negative enteric bacteria. The American Public Health Association recommends EMB agar for use in the microbiological examination of dairy products and foods

VALUE

High Throughput – Once the device is inoculated, no other preparation is required saving time

Cost Savings – Reduces laboratory materials and medical waste

BENEFITS

Convenient - Combines collection, culture, and observation into one device

Easy to use - Minimal lab procedures and equipment needed

Easy observation – No fogging or condensation on the InTray™ viewing window

Safe - Fully enclosed InTray™ system prevents contamination and reduces exposure to collected samples

PRODUCT SPECIFICS

Storage –Refrigeration (2-8 °C)
Incubation – 35 ± 2°C for 24 to 48 hours

Quantity Sold
20 Pack (19-1101)
5 Pack (19-1107)

PRODUCT BIO

BioMed's InTray™ EMB is a microbiology sample collection, transport, and culture device for the growth, observation and enumeration of gram-negative bacteria primarily used with food and dairy samples. **BioMed's patented InTray™ System saves time and money, while reducing exposure to collected samples by combining several procedures into a single device.**

The patented InTray™ system consists of an outer, re-sealable label with an optically clear, anti-fog window covering the media, which creates an airtight seal over the 2" diameter agar surface. The innovative design of the InTray™, with its unique, high-performance viewing window, can be placed directly under a microscope while remaining sealed. This device removes the need to prepare slides or further expose the sample once the device has been inoculated**. By combining both growth and observation into one fully enclosed system, the InTray™ system increases throughput while decreasing the cost of laboratory materials and medical waste.**

Additionally, the InTray™ design lends itself to high performance in laboratory and controlled point-of-care settings, as well as off-site locations or austere environments. The InTray™ EMB is a fully enclosed system and does not require any reagents or complicated procedures to inoculate or obtain presumptive results. The InTray™ system is also equipped with a small air filter creating a controlled air exchange.

Visual Morphology Results:

- *Escherichia coli* – Large, blue-black, green with metallic sheen
- *Enterobacter* and Klebsiella – Large, mucoid, blue-black
- *Proteus*, *Salmonella*, *Shigella* – Large, colorless
- *Pseudomonas* – Irregular, colorless
- Gram-positive bacteria – No growth to slight growth

QUALITY CONTROL

At the time of manufacture, quality control testing is performed on each lot of the InTray™ EMB using ATCC™ strains to ensure viability and sterility. These tests are repeated through the end of the product shelf life by BioMed Diagnostics confirming the ability of the InTray™ EMB to support growth while maintaining specificity.

BACKGROUND

EMB Agar has become the prevalent enteric plating medium utilizing dyes as selective agents. The American Public Health Association recommends it for use in the microbiological examination of dairy products and foods.

Eosin Y and methylene blue dyes in this EMB Agar make the medium somewhat selective, inhibiting gram–positive bacteria. The dyes also aid in differentiating lactose fermenters from lactose non-fermenters based on dye uptake in certain bacterial colonies. Coliforms, which can ferment lactose, appear as blue-black colonies, whereas colonies of *Salmonella* and *Shigella*, which are unable to ferment lactose, appear colorless, transparent or amber.

DIRECTION

To inoculate the InTray™ EMB, pull back the lower right corner of the label adjacent to the clear window until the protective seal is completely visible. Remove the seal by pulling the tab, discard the seal, but do not remove the white filter strip over the vent hole.

Obtain a small amount of specimen sample and place sample on top of the agar. The 2" diameter well allows for a large enough surface area to streak for isolation.

To incubate the device, return the label to its original position so the optically clear anti-fog window covers the medium. Press the edges of the label against the plastic tray to ensure an airtight seal. Best practice suggests incubation at 35 ±2°C for 24 to 48 hours and incubation of a non-selective medium in parallel. **Consult appropriate reference for ultimate sample collection, incubation and confirmation procedure.**

DETECTION

Observe for colony growth and appearance through the clear window. For examination using a microscope, simply place the InTray™ EMB on the microscope and observe through the clear viewing window.

REFERENCES

1. Wehr and Frank (ed.). 2004. *Standard methods for the examination of dairy products, 17th ed*. American Public Health Association, Washington, D.C.

2. Downes and Ito (ed.). 2001. *Compendium of methods for the microbiological examination of foods, 4th ed*. American Public Health Association, Washington, D.C.

3. Baron, Spilman and Carey. 1959. Abstract. G7, p. 29. *Bacteriology Procedure*. 59th General Meeting Society of American Bacteriologists 1959.

CORPORATE OVERVIEW

BioMed Diagnostics, Inc., a boutique biotech firm and an industry leader since 1989, develops and manufactures in *vitro* diagnostic devices. BioMed's point-of-care ready tests provide accurate diagnostic tools for scientists worldwide to aid in the identification of bacteria, parasites and fungi. The company formed as the result of a mercy mission conducted by a group of physicians to Central America; there they discovered the need for robust diagnostic tools for use in austere environments. Their experience unleashed the inspiration for BioMed's innovative products that support medical professionals, veterinarians, research teams, and environmental and industry scientists globally.

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