

InTray™ Brilliant Green Agar

For the selective isolation of *Salmonella* species other than *S. typhi* from fecal samples, water and foodstuffs. This medium is included in procedures in *Standard Methods for the Examination of Water and Wastewater*.

VALUE

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

Cost Savings – Reduces laboratory materials and medical waste

High specificity – Selective against the growth of *S. typhi* and *S. paratyphi*

BENEFITS

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

Easy to use - Minimal lab procedures and equipment needed

Easy to store – 6 month shelf life under refrigeration

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)

Shelf Life – 6 months

Incubation – 24–48 hours at 35 ± 2°C

Quantity Sold

20 Pack (39-1001)

5 Pack (39-1000)

PRODUCT BIO

BioMed's InTray™ Brilliant Green is a microbiology sample collection, transport, culture device for the growth and observation of *Salmonella* species other than *S. typhi*. **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 removing the need to prepare slides or 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 or controlled point-of-care settings as well as off-site locations or austere environments. The InTray™ Brilliant Green 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.

The InTray™ system is ideal for use in the field and in austere environments due to its low reliance on laboratory equipment.

Visual Results:

- *Salmonella* sp. (other than *S. typhi* and *S. paratyphi*) – White to red, opaque colonies surrounded by red zones in the medium
- *S. typhi* and *S. paratyphi* – No growth to trace growth
- *Shigella* – No growth to trace growth
- *Escherichia coli*, *Enterobacter*, *Klebsiella* – Yellow to green-yellow colonies surrounded by intense yellow-green zones in medium
- *Pseudomonas* – Pink to red colonies
- *Proteus* – No growth to trace growth
- Gram-positive bacteria – No growth to trace growth

QUALITY CONTROL

At the time of manufacture, quality control testing is performed on each lot of the InTray™ Brilliant Green 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™ Brilliant Green to support growth while maintaining specificity.

BACKGROUND

Brilliant Green Agar was first described in 1925 and later modified in 1935. The medium is included in *Standard Methods for the Examination of Water and Wastewater*. The brilliant green dye included in the medium inhibits gram-positive bacteria while phenol red acts as a pH indicator for certain organisms. Phenol red changes to a yellow color due to the acid produced during fermentation of the lactose included in the medium.



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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DIRECTION

To inoculate the InTray™ Brilliant Green, 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 $35 \pm 2^{\circ}\text{C}$ for 24-48 hours. **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™ Brilliant Green on the microscope and observe through the clear viewing window.

REFERENCES

1. Eaton, Rice and Baird (ed.). 2005. *Standard methods for the examination of water and wastewater, 21st ed.* American Public Health Association, Washington, D.C.
2. Kristensen, M., V. Lester, and A. Jurgens. 1925. *On the use of trypticized casein, bromthymol blue, bromcresol purple, phenol red and brilliant green for bacteriological nutrient media.* Br. J. Exp. Pathol. 6:291
3. Kauffmann, F. 1935. *Weitere Erfahrungen mit den kombinierten Anreicherungsverfahren für Salmonellabacillen.* Z. Hyg. Infektionskr. 117:26.