

PRODUCT INFORMATION

Product Type: PETRI DISHES 90mm

Cat No. PD063 - HY CAMPYLOBACTER MEDIUM

Intended Use:

Selective isolation and cultivation of *Campylobacter* spp. (especially *C. jejuni* and *C. coli*) from stool, food, or environmental samples.

Principle and Uses:

A highly nutritious base containing peptones, yeast extract, and starch, supporting the growth of fastidious organisms, with Defibrinated Horse Blood that Provides X (heme) and V (NAD) factors, additional nutrients, and allows for the observation of hemolysis. Horse blood is often preferred for *Campylobacter* as it supports better growth than sheep blood for some strains. Vancomycin Selectively inhibits most gram-positive bacteria, enhancing recovery of *Campylobacter*, and with supplement that contains: Cefoperazone: Inhibits many gram-negative and gram-positive organisms except *Campylobacter*, and other agents (e.g., amphotericin B) that suppress fungi and other contaminants.

The supplement, combined with vancomycin, creates a highly selective environment for *Campylobacter*.

Hy-Campylobacter media are selective and are inhibiting for the growth of *Pseudomonas*, *Proteus*, *Streptococcus*, *Staphylococci* and *Candida* species.

Colony Appearance and Interpretation

***Campylobacter* spp.:**

Colonies are typically moist, flat, grayish, and may have a spreading or metallic sheen. Hemolysis is not a primary feature, but horse blood supports robust growth.

Other flora:

Most gram-positive and many gram-negative bacteria are inhibited by the antibiotic combination.

Instructions for use:

- Use fresh samples (or a sample kept refrigerated for no more than 6 hours)
- Fluid or loose: Spread regularly on the Petri dish.
- Non-fluid sample: Suspend in sterile saline, homogenize and then spread on the Petri dish.
- Place the Petri dish in a jar with microaerophilic environment conditions
- Selective blood-containing medium - Incubate 24 to 48 h at 42-43°C.
- Read results after 24 h and if negative read again after 48 h of incubation. *C. jejuni* grows generally as small round and smooth or flat colonies with a tendency of spreading.
- Perform gram stain and further biochemical tests to identify the exact species.

Composition

Special peptone - 23.0 g/L
Starch - 1.0 g/L
Sodium chloride - 5.0 g/L
Agar - 10.0 g/L
Vancomycin - 6 mg/L
Cefoperazone - 32.0 mg/L
Amphotericin B - 10.0 mg/L
Defibrinated horse Blood - 100 ml/L

Storage: 2-8°C

Appearance: Deep red Opaque

pH Range: 7.0 - 7.4

Package contents: 10 plates in a package

Exp. Date: Printed on label and on the item.

Required materials not supplied: Laboratory equipment as required.

Warning and Precautions - For professional use only. Follow good microbiological lab practices while handling specimens and culture. Do not use Petri dishes if they show evidence of microbial contamination, discoloration, drying, cracking, or other signs of deterioration. Avoid freezing and overheating. The Petri Dishes may be used / inoculated up to the expiration date and incubated for the recommended incubation times. After use and prior to discarding, specimen containers and all contaminated material, including the used culture media and contaminated culture containers, must be sterilized or incinerated by validated procedures. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.

If excessive moisture is observed, invert the bottom over an off-set lid and allow to air dry in order to prevent formation of a seal between the top and bottom of the plate during incubation. Storage Instructions: On receipt, store plates in the dark at 2–8 °C. Avoid freezing and overheating. Do not open until ready to use.

Waste Disposal

After interpretation all plates should be destroyed by standard incineration methods.

Performance Testing Results

GPT: Inoculum 10-100 cfu.

Inhibitory properties: Inoculum 10000 cfu.

TEST	ATCC	Incubation Temp. (°C)	Incubation Cond	Reaction 1
<i>Campylobacter jejuni</i>	33291	41-43 °C	Microaerophilic, 48 hours	Growth
<i>Candida albicans</i>	10231	41-43 °C	Microaerophilic, 48 hours	Partially Inhibited
<i>Escherichia coli</i>	25922	41-43 °C	Microaerophilic, 48 hours	Partially Inhibited
<i>Staphylococcus aureus</i>	25923	41-43 °C	Microaerophilic, 48 hours	Inhibited
<i>Proteus mirabilis</i>	4630	41-43 °C	Microaerophilic, 48 hours	Partially inhibited
<i>Enterococcus faecalis</i>	19433	41-43 °C	Microaerophilic, 48 hours	Inhibited