

PRODUCT INFORMATION

Product Type: PETRI DISHES 90mm

Cat No. PD077 - HY CAMPYLOBACTER MEDIUM B.F.

Intended Use:

A medium, which when prepared from Campylobacter Blood-Free Selective Agar Base and CCDA Selective Supplement, can be used for the isolation of *Campylobacter jejuni*, *Campylobacter coli* and *Campylobacter laridis*, from stool, food, or environmental samples.

Principle and Uses:

The addition of vancomycin enhances suppression of gram-positive contaminants while maintaining selectivity against gram-negative flora.

Modified CCDA-Preston Base:

- Nutrient Broth No. 2 Provides nitrogen, amino acids, minerals
- Charcoal Quenches toxic oxygen radicals, supports Campylobacter aerotolerance, Charcoal and pyruvate: Neutralize toxic oxygen metabolites, enhancing Campylobacter recovery
- Sodium deoxycholate Inhibits gram-positive bacteria
- Ferrous sulfate / sodium pyruvate Enhances Campylobacter growth Supplements,
- Cefoperazone Inhibits gram-negative bacteria, Inhibits Enterobacteriaceae and Pseudomonas.
- Amphotericin B Antifungal agent, Suppresses fungi / yeasts.
- Vancomycin Further suppresses gram-positive bacteria (e.g., Enterococcus, Staphylococcus).

Colony Appearance and Interpretation

Campylobacter colonies:

Grayish, flat, moist, sometimes spreading or with a metallic sheen.

Non-hemolytic (blood-free formulation).

Composition

Nutrient Broth No.2: (25.0 g/L)

Special meat extract - 10.0 g/L

Peptone - 10.0 g/L

Sodium chloride - 5.0 g/L

Bacteriological charcoal - 4.0 g/L

Casein hydrolysate - 3.0 g/L

Sodium desoxycholate - 1.0 g/L

Ferrous sulphate - 0.25 g/L

Sodium pyruvate - 0.25 g/L

Agar - 12.0 g/L

Vancomycin - 6 mg/L

Cefoperazone - 32.0 mg/L

Amphotericin B - 10.0 mg/L

Storage: 2-8°C
Appearance: Opaque, charcoal-gray
pH Range: 7.2 - 7.6

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>Enterococcus faecalis</i>	19433	41-43 °C	Microaerophilic, 48 hours	Partially Inhibited
<i>Candida albicans</i>	10231	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>Escherichia coli</i>	25922	41-43 °C	Microaerophilic, 48 hours	Partially inhibited