

**Blood Free Campylobacter Selectivity HiVeg™ Agar Base****MV887**

Blood Free Campylobacter Selectivity HiVeg Agar Base is used for selective isolation and differentiation of *Campylobacter* species.

**Composition \*\* :**

Ingredients	Grams/Litre
HiVeg extract	10.0
HiVeg peptone	10.0
HiVeg hydrolysate	3.0
Sodium chloride	5.0
Synthetic detergent No. III	1.0
Ferrous sulphate	0.25
Sodium pyruvate	0.25
Charcoal, bacteriological	4.0
Agar	12.0

Final pH (at 25°C ) 7.4 ± 0.2

\*\* Formula adjusted, standardized to suit performance parameters.

**Directions :**

Suspend 22.75 grams in 500 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 50°C and aseptically add rehydrated contents of one vial of Campylobacter Supplement V (FD067). Alternatively to increase the selectivity of the medium, rehydrated contents of one vial of CAT Selective Supplement (FD145) may be added to 500 ml sterile molten base. Mix well and pour into sterile petri plates.

**Principle and Interpretation :**

This medium is prepared by completely replacing animal based peptones by vegetables peptones. The performance of this medium is equivalent to conventional CCDA-Preston Blood Free Medium cited in APHA (1) for selective isolation of *Campylobacter jejuni*, *Campylobacter coli*, Nalidixic acid resistant, thermophilic *Campylobacter* species and *Campylobacter laridis* from clinical specimens. Blood is replaced by charcoal. Ferrous sulphate and sodium pyruvate enhance aerotolerance of *Campylobacter* species. *Campylobacter* isolation depends on the antimicrobial agents in the medium, a microaerophilic environment and the incubation temperature. Incubation at 42°C under microaerobic conditions yields maximum growth of *Campylobacter*. Colonies tend to swarm when initially isolated from clinical specimens.

**Quality Control :****Appearance of powder**

Grey coloured, homogeneous, free flowing powder.

**Product Profile :**

Vegetable based (Code MV)©	Animal based (Code M)
<b>MV887</b> HiVeg hydrolysate HiVeg peptone HiVeg extract Synthetic detergent No. III	<b>M887</b> Casein enzymic hydrolysate Peptic digest of animal tissue Beef extract Sodium deoxycholate

**Recommended for** : Selective isolation and differentiation of *Campylobacter* species.

**Reconstitution** : 45.5 g/l

**Quantity on preparation (500g):** 10.98 L

**pH (25°C)** : 7.4 ± 0.2

**Supplement** : Campylobacter Supplement V (FD067) / CAT Selective Supplement (FD145)

**Sterilization** : 121°C / 15 minutes.

**Storage** : Dry Medium - Below 30°C, Prepared Medium 2 - 8°C.

**Gelling**

Firm, comparable with 1.2% Agar gel.

**Colour and Clarity**

Black coloured, opaque gel forms in petri plates.

**Reaction**

Reaction of 4.55% w/v aqueous solution is pH 7.4 ± 0.2 at 25°C.

**Cultural Response**

Cultural characteristics observed after an incubation at 42°C for 24 - 48 hours on addition of Campylobacter Supplement V (FD067).

Organisms (ATCC)	Growth	Colour of colony
<i>Campylobacter coli</i> (33559)	good - luxuriant	Creamy grey
<i>Campylobacter jejuni</i> (29428)	good - luxuriant	Grey
<i>Campylobacter laridis</i>	good - luxuriant	Varying type
<i>Escherichia coli</i> (25922)	inhibited	-

**References :**

- Vanderzant C. and Splittstoesser D. (Ed.), 1992, Compendium of Methods For Microbiological Examination of Food, 3<sup>rd</sup> ed., APHA, Washington, D.C.