



CRAMP HiVeg™ Agar Base

MV1243

CRAMP HiVeg Agar Base is used for the cultivation of *Yersinia* species with plasmids.

Composition**

Ingredients	Gms / Litre
Galactose	2.000
HiVeg acid hydrolysate	2.000
Congo red	0.005
Sodium chloride	2.900
Morpholine propane sulfonic acid	8.400
Ammonium chloride	0.500
Sodium thiosulphate	0.600
Dipotassium phosphate	0.240
Magnesium sulphate	0.0986
Tricine	1.800
Agarose	14.000
Final pH (at 25°C)	5.3±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 32.54 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Distribute into tubes or flasks. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle And Interpretation

CRAMP HiVeg Agar Base is prepared by replacing casein acid hydrolysate with HiVeg acid hydrolysate making the medium BSE/TSE risks free. *Yersinia* is a gram-negative bacillus belonging to the family *Enterobacteriaceae*. The species are nitrate reductase positive, oxidase negative, urease positive and generally has both respiratory and fermentative type of metabolism.

CRAMP HiVeg Agar Base is the modification of CRAMP (Congo Red Acid Morpholine propane sulfonic acid Pigmentation) Agar Base that is used for the cultivation of *Yersinia* species with plasmids (1). Since pathogenicity of the organism is associated with its plasmids, the congo red reaction is used for virulence test of *Yersinia* (2).

HiVeg acid hydrolysate serves as nitrogen source. Morpholine propane sulfonic acid and tricine are the buffers in the medium. Galactose serves as carbon source. Congo red is the indicator dye in the medium. The salts provide essential ions required by the organism.

Quality Control

Appearance

Light yellow to pink homogeneous free flowing powder

Gelling

Firm, comparable with 1.4% Agar gel.

Colour and Clarity

Light orange clear to slightly opalescent gel forms in Petri plates.

Reaction

Reaction of 3.25% w/v aqueous solution at 25°C. pH : 5.3±0.2

pH

5.10-5.50

Cultural Response

MV1243: Cultural characteristics observed after an incubation at 32°C for 24 - 48 hours.

Organism	Inoculum (CFU)	Growth
<i>Yersinia enterocolitica</i> (27729)	100-1000	good-luxuriant

Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2-8°C. Use before expiry date on the label.

Reference

- 1.APHA. Compendium of Methods for the Microbiological Examination of Foods. 3 ed. Vanderzant C, Splittstoesser DF, editors. Washington DC1992.
- 2.Prpic J. K. R-BRMaDB, 1983, J. Clinic. Microbiol., 18: 486.

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