

PSB HiVeg™ Broth Base**MV941**

PSB HiVeg Broth Base is recommended for primary enrichment and enumeration of *Yersinia enterocolitica* from food.

Composition ** :

Ingredients	Grams/Litre
HiVeg peptone	20.0
Sodium chloride	10.0
Disodium phosphate, anhydrous	18.0
Monopotassium phosphate, monohydrate	3.0

Final pH (at 25°C) 7.5 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Directions :

Suspend 50.60 grams in 1000 ml distilled water. Heat if necessary to ensure complete solution. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to room temperature and aseptically add filter sterilized Cycloheximide solution to a final concentration of 100 mg/litre medium.

Principle and Interpretation :

PSB HiVeg Broth Base is prepared by using HiVeg peptone in place of Peptic digest of animal tissue which makes the medium free from BSE/TSE risks. PSB HiVeg Broth is a modification of PSB Broth recommended by APHA (1) for enrichment of *Yersinia* species.

HiVeg peptone provides essential growth nutrients. Sodium chloride maintains osmotic equilibrium while phosphates buffer the medium well.

The food homogenate is added to primary enrichment broth and is held at refrigeration temperature of 4°C for 1-4 weeks and at one or more intervals, aliquots of the homogenate are inoculated directly onto selective agar and/or into selective broth, which following incubation is streaked onto selective agar media like MacConkey HiVeg Agar (MV081), SS HiVeg Agar (MV081), *Yersinia* Selective HiVeg Agar Base (MV843).

Quality Control :**Appearance of powder**

Light yellow coloured, may have slightly greenish tinge homogeneous, free flowing powder.

Colour and Clarity

Light yellow coloured, clear to slightly hazy solution.

Reaction

Reaction of 5.06% w/v aqueous solution is pH 7.5 ± 0.2 at 25°C.

Product Profile :

Vegetable based (Code MV)©	Animal based (Code M)
MV941 HiVeg peptone	M941 Peptic digest of animal tissue

Recommended for : Primary enrichment and enumeration of *Yersinia enterocolitica* from foods.

Reconstitution : 50.60 g/l

Quantity on preparation (500g) : 9.88 L

pH (25°C) : 7.5 ± 0.2

Supplement : Cycloheximide

Sterilization : 121°C / 15 minutes.

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

Cultural Response

Cultural characteristics observed after an incubation at 25-30°C for 3-5 days or at refrigeration temperature for 4-7 days.

Organisms (ATCC)	Inoculum (CFU)	Growth
<i>Yersinia enterocolitica</i> (27729)	10 ² -10 ³	good-luxuriant
<i>Yersinia pseudotuberculosis</i> (29833)	10 ² -10 ³	good-luxuriant

References :

- Downes FP and Ito K (Eds.), 2001, Compendium of Methods For The Microbiological Examination of Foods, 3rd ed., APHA, Washington, D.C.



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- Control
- Yersinia enterocolitica*