Tryptone Phosphate HiVeg™ Broth MV953

Tryptone Phosphate HiVeg Broth is recommended for enrichment and cultivation of enteropathogenic *Escherichia coli* from suspected food samples.

Composition ** :

Ingredients	Grams/Litre
HiVeg hydrolysate	20.0
Dipotassium phosphate	2.0
Monopotassium phosphate	2.0
Sodium chloride	5.0
Polysorbate 80	1.5

Final pH (at 25°C) 7.0 ± 0.2
** Formula adjusted, standardized to suit performance parameters.

Directions :

Suspend 30.5 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Dispense in 100 ml aliquotes and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle and Interpretation :

In this media the animal based peptone Casein enzymic hydrolysate is replaced by vegetable peptone HiVeg hydrolysate which is free from BSE/TSE risks. Tryptone Phosphate HiVeg Broth, is the modification of Tryptone Phosphate Broth which is formulated as recommended by APHA (1) for the enrichment of enteropathogenic *Escherichia coli*. HiVeg hydrolysate serves as a good source of nitrogen. Polysorbate 80 is the fatty acid source required for bacterial metabolism. The inorganic phosphates serve as the buffer while sodium chloride maintains the osmotic balance. For isolating pathogenic *Escherichia coli* from foods, aseptically add 25gm of sample to 225 ml of Brain Heart infusion Broth HiVeg (MV210) and pre-enrich for 3 hours at 35°C. Transfer the entire pre-enrichment broth to 250 ml of Tryptone Phosphate HiVeg Broth. To ascertain the productivity of this medium incubate at 44°C for 20 hours. For isolation and identification streak from the Tryptone Phoshate HiVeg Broth onto EMB HiVeg Agar (MV022/MV317)or MacConkey HiVeg Agar (MV082).

Quality Control :

Appearance of powder

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

Product Profile :		
Vegetable based (Code MV)◉		**Animal based** (Code M)
MV953 HiVeg hydrolysate		**M953** Casein enzymic hydrolysate
Recommended for	:	Enrichment and cultivation of enteropathogenic *Escherichia coli*.
Reconstitution	:	30.5 g/l
Quantity on preparation (500g)	:	16.39 L
pH (25°C)	:	7.0 ± 0.2
Supplement	:	None
Sterilization	:	121°C / 15 minutes.
Storage : Dry Medium-Below 30°C, Prepared Medium 2 - 8°C.		

Colour and Clarity

Light amber coloured, clear solution without any precipitate.

Reaction

Reaction of 3.05% w/v aqueous solution is pH 7.0 ± 0.2 at 25°C

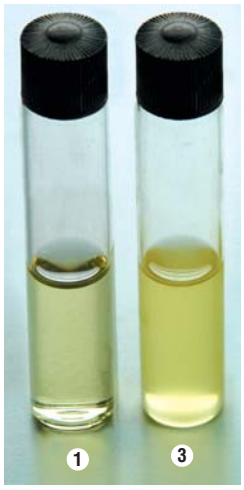
Cultural Response

Cultural characteristics observed after an incubation at 35 - 37°C for 18 - 48 hours .

Organisms (ATCC)	Inoculum (CFU)	Growth
Escherichia coli (25922)	10^2-10^3	good-luxuriant

References :

1. Downes FP and Ito K (Eds.), 2001, Compendium of Methods For The Microbiological Examination of Foods, 4th ed., APHA, Washington, D.C.



MV953 Tryptone Phosphate HiVeg Broth
1. Control
2. *Escherichia coli*

◉ Prepared from GMO free Vegetable proteins replacing Animal based peptones. Freedom from BSE/TSE worries.