

Luria HiVeg™ Agar / Broth

MV557 / MV575

Luria HiVeg Agar / Broth is used for the cultivation and maintenance of recombinant strains of *Escherichia coli*.

Composition :**

Ingredients	MV557	MV575
	Grams/Litre	Grams/Litre
HiVeg hydrolysate	10.00	10.00
Yeast extract	5.00	5.00
Sodium chloride	5.00	5.00
Agar	15.00	—

Final pH (at 25°C) 7.0 ± 0.2

** Formula adjusted, standardized to suit performance parameters

Directions :

Suspend 35.0 grams of MV557 or 20.0 grams of MV575 in 1000 ml distilled water. Heat to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Dispense as desired.

Principle and Interpretation :

These media are prepared by replacing Casein enzymic hydrolysate with HiVeg hydrolysate which is free of BSE/TSE risks. These media are the modification of Luria Agar/Broth which are prepared as described by Lennox (1) for cultivation and maintenance of recombinant strains of *Escherichia coli*. The media are nutritionally rich for the growth of pure cultures of recombinant strains.

HiVeg hydrolysate provides peptides and peptones while Vitamin B complex is provided by yeast extract. Sodium chloride provides sodium ions for the membrane transport and maintains osmotic equilibrium of the medium.

Quality Control :

Appearance of Powder

Light yellow coloured, homogeneous, free flowing powder.

Gelling

Firm, comparable with 1.5% Agar gel of MV557.

Colour and Clarity

Yellow to amber coloured clear to slightly opalescent gel forms in petri plates, clear solution in tubes.

Reaction

Reaction of 3.5% w/v of MV557 or 2.0% w/v of MV575 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 - 24 hours.

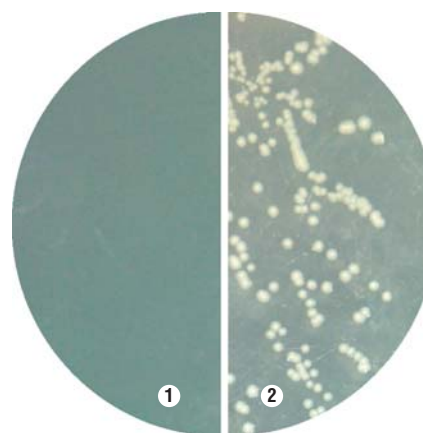
Organisms (ATCC)	Inoculum(CFU)	Growth	Recovery
<i>Escherichia coli</i> (25922)	100-300	luxuriant	>70%
<i>Escherichia coli</i> (23724)	100-300	luxuriant	>70%

Product Profile :

Vegetable based (Code MV)Ⓞ		Animal based (Code M)	
MV557/MV575 HiVeg hydrolysate		M557/M575 Casein enzymic hydrolysate	
Recommended for	:	Cultivation and maintenance of recombinant strains of <i>Escherichia coli</i>	
Reconstitution	:	(MV557) : 35.0 g/l	
	:	(MV575) : 20.0 g/l	
Quantity on preparation (500g)	:	(MV557) : 14.28 L	
	:	(MV575) : 25.0 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.	

References :

1. Lennox E.S., 1955, Transduction of Linked Genetic Characters of the host by bacteriophage P1., *Virology*, 1:190.
2. Atlas R.M., 1993, Handbook of Microbiological Media, Ed. by Parks L., CRC Press, Inc.



MV557 Luria HiVeg Agar
(Against dark background)

1. Control
2. *Escherichia coli* (25922)