D.C.L.S. HiVeg™ Agar MV160

D.C.L.S. HiVeg Agar is used as a selective medium for the isolation of *Shigella* and *Salmonella*. Also useful for isolation of *Vibrio cholerae*.

Composition ** :

Ingredients	Grams/Litre
HiVeg peptone No. 3	8.0
HiVeg extract	3.0
Lactose	5.0
Sucrose	5.0
Sodium citrate	10.0
Sodium thiosulphate	5.0
Synthetic detergent No. III	1.5
Neutral red	0.03
Agar	12.0

Final pH (at 25°C) 7.2 ± 0.2
** Formula adjusted, standardized to suit performance parameters.

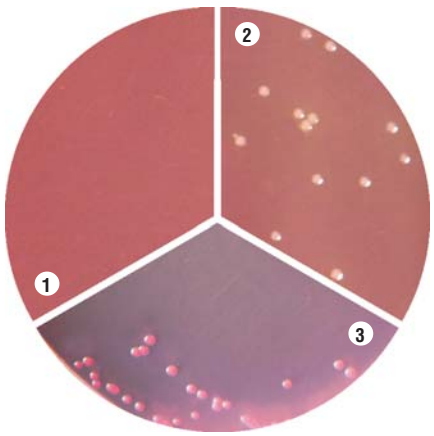
Directions :

Suspend 49.5 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. DO NOT AUTOCLAVE. Cool to 50°C and pour about 20 ml of medium into standard petri plates and allow to dry for about two hours with covers partially removed.

Principle and Interpretation :

This medium is prepared by completely replacing animal based peptones by vegetable peptones which are free from BSE/TSE risks. D.C.L.S. HiVeg Agar is a modification of Deoxycholate Citrate Agar of Leifson (1). The addition of sucrose to this medium increases its usefulness because non-pathogenic sucrose fermenting organisms like *Proteus, Enterobacter, Klebsiella* form red colonies. D.C.L.S. HiVeg Agar is a moderately selective culture medium which also supports the growth of *Vibrio* species. This medium contains HiVeg peptone No. 3, HiVeg extract, which provides essential growth nutrients. Sodium citrate and synthetic detergent No.III inhibit coliforms and gram-positive bacteria respectively. Sucrose and lactose are the fermentable sugars. The nonfermenters show colourless or nearly colourless colonies. *Shigella sonnei* may form a translucent, pink colony.

D.C.L.S. HiVeg Agar may be inoculated directly from the specimen or inoculated after enrichment in Selenite HiVeg Broth (MV025A) or Tetrahionate HiVeg Broth (MV032). The suspected *Salmonellae, Shigellae* colonies are further subcultured on Triple Sugar Iron HiVeg Agar (MV021) for identification.



MV160 D.C.L.S. HiVeg Agar
1. Control
2. *Salmonella* serotype Typhimurium
3. *Escherichia coli*

Product Profile :

Vegetable based (Code MV)◉	Animal based (Code M)
MV160 HiVeg peptone No.3 HiVeg extract Synthetic detergent No. III	**M160** Proteose peptone Beef extract Sodium deoxycholate

Recommended for	:	Selective medium for the isolation of *Shigella, Salmonella* and *Vibrio*
Reconstitution	:	49.5 g/l
Quantity on preparation (500g)	:	10.1 L
(100g)	:	2.02 L
pH (25°C)	:	7.2 ± 0.2
Supplement	:	None
Sterilization	:	Boiling (DO NOT AUTOCLAVE).

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

Quality Control :

Appearance of powder
Light pink coloured, homogeneous, free flowing powder.
Gelling
Firm, comparable with 1.2% Agar gel.
Colour and Clarity
Reddish orange coloured, clear to very slightly opalescent gel forms in petri plates.
Reaction
Reaction of 4.95% w/v aqueous solution is pH 7.2 ± 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	Recovery	Colour of colony
Enterococcus faecalis (29212)	10^2-10^3	inhibited	0%	-
Escherichia coli (25922)	10^2-10^3	none-poor	<10%	red
Proteus vulgaris (13315)	10^2-10^3	luxuriant	>50%	red
Salmonella serotype Typhimurium (14028)	10^2-10^3	luxuriant	>50%	colourless-slightly pink
Shigella flexneri (12022)	10^2-10^3	poor-good	<30%	slightly pink

References :

1. Leifson E., 1935, J. Pathol. Bacteriol., 40:581.

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

HIMEDIA®