

**Modified Soyabean HiVeg™ Agar****MV1329**

Modified Soyabean HiVeg Agar is recommended for microbiological assay of Polymyxin B, colistin sulphate and colistimethate sodium.

**Composition \*\* :**

Ingredients	Grams/Litre
HiVeg hydrolysate	17.0
Papaic digest of soyabean meal	3.0
Sodium chloride	5.0
Dipotassium hydrogen phosphate	2.5
Glucose	2.5
Polysorbate 80	10.0
Agar	15.0

\*\* Formula adjusted, standardized to suit performance parameters.

**Directions :**

Suspend 55.0 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

**Principle and Interpretation :**

This medium is prepared by completely replacing animal based peptone with vegetable peptone making the medium free of BSE/TSE risks. Modified Soyabean HiVeg Agar is the modification of Modified Soyabean Casein Digest Agar which is recommended as Medium-B by British Pharmacopoeia for microbiological assay of Polymyxin B, Colistin sulphate and Colistimethate sodium (1). The combination of HiVeg hydrolysate and Papaic digest of soyabean meal makes this media nutritious by providing amino acids and long chain peptides for the growth of microorganisms. Glucose serves as immediate carbon source whereas dipotassium phosphate buffers the medium. Sodium chloride maintains the osmotic balance of media. Depending on the growth requirement, polysorbate 80 is included in the media which serves as fatty acid source.

**Product Profile :**

Vegetable based (Code MV)☉	Animal based (Code M)
<b>MV1329</b> HiVeg hydrolysate	<b>M1329</b> Casein enzymic hydrolysate

**Recommended for** : Microbiological assay of Polymyxin B, colistin sulphate and colistimethate sodium.

**Reconstitution** : 55.0 g/l

**Quantity on preparation (500g)** : 9.09 L

**pH (25°C)** : -

**Supplement** : None

**Sterilization** : 121°C / 15 minutes.

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

**Quality Control :****Appearance of powder**

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

**Gelling**

Firm, comparable with 1.5% Agar gel.

**Colour and Clarity**

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

**Cultural Response**

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

Organisms (ATCC)	Inoculum (CFU)	Growth	Recovery
<i>Bacillus subtilis</i> (6633)	10 <sup>2</sup> -10 <sup>3</sup>	luxuriant	>70%
<i>Candida albicans</i> (10231)	10 <sup>2</sup> -10 <sup>3</sup>	luxuriant	>70%
<i>Staphylococcus aureus</i> (25923)	10 <sup>2</sup> -10 <sup>3</sup>	luxuriant	>70%
<i>Streptococcus pyogenes</i> (19615)	10 <sup>2</sup> -10 <sup>3</sup>	luxuriant	>70%

**References :**

1. The British Pharmacopoeia., 2003, Volume IV, The Stationery Office Limited, UK.