

ISP HiVeg™ Medium No. 6 (Peptone Yeast Extract Iron HiVeg™ Agar) MV361

ISP HiVeg Medium No. 6 (Peptone Yeast Extract Iron HiVeg Agar) is recommended for the cultivation and maintenance of *Streptomyces* species.

Composition ** :

Ingredients	Grams/Litre
HiVeg peptone	15.0
HiVeg peptone No. 3	5.0
Yeast extract	1.0
Ferric ammonium citrate	0.5
Dipotassium phosphate	1.0
Sodium thiosulphate	0.08
Agar	15.0

Final pH (at 25°C) 6.7 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

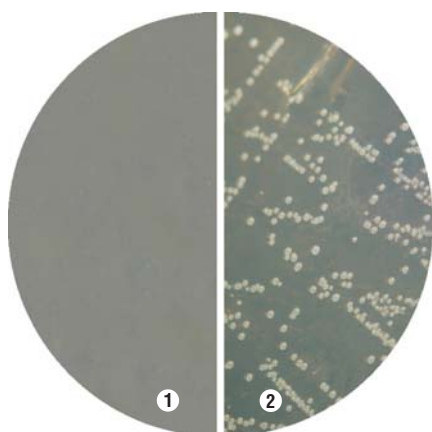
Directions :

Suspend 37.58 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Dispense as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45 - 50°C. Pour into sterile petriplates.

Principle and Interpretation :

This medium is prepared by using HiVeg peptone and HiVeg peptone No.3 in place of Peptic digest of animal tissue and Proteose peptone making the medium free of BSE/TSE risks. ISP HiVeg Medium No. 6 (Peptone Yeast Extract Iron HiVeg Agar) is the modification of ISP Medium No. 6 (Peptone Yeast Extract Iron Agar) according to the International Streptomyces Project for the cultivation and maintenance of *Streptomyces* species (1, 2).

HiVeg peptone, HiVeg peptone No.3 and yeast extract provide carbon, nitrogen, sulphur, vitamin B complex and other essential growth nutrients. Dipotassium hydrogen phosphate gives the medium good buffering capacity.



M361 ISP HiVeg Medium No. 6
(Against Dark Background)

1. Control
2. *Streptomyces lavendulae*

Product Profile :

Vegetable based (Code MV)©	Animal based (Code M)
MV361 HiVeg peptone HiVeg peptone No.3	M361 Peptic digest of animal tissue Proteose peptone

Recommended for : The cultivation and maintenance of *Streptomyces* species.

Reconstitution : 37.58 g/l

Quantity on preparation (500g) : 13.30 L

(100g) : 2.66 L

pH (25°C) : 6.7 ± 0.2

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.

Reaction

Reaction of 3.76% w/v aqueous solution is pH 6.7 ± 0.2 at 25°C.

Cultural Response

Cultural characteristics observed after an incubation at 25-30°C for 48 - 72 hours.

Organisms (ATCC)

Streptomyces achromogenes (12767)

Streptomyces albus (3006)

Streptomyces lavendulae (8664)

Growth

good-luxuriant

good-luxuriant

good-luxuriant

References :

1. Shirling, E.B., and D. Gottlieb, 1966. Int. J. Syst. Bacteriol. 16:313.
2. Atlas R.M., 1993, Handbook of Microbiological Media, Parks, L.C. (Ed.), CRC Press, Inc.