

## Technical Information

### ISP MiVeg Medium No. 6 (Peptone Yeast Extract Iron MiVeg Agar)

#### Product Code : VM1361

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

#### Composition

Ingredients	Gms / Litre
MiVeg peptone	15.0
MiVeg 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.

#### Principle & Interpretation

ISP MiVeg Medium No. 6 is prepared by adding MiVeg peptone and MiVeg peptone No.3 in place of Peptic digest of animal tissue and Proteose peptone thus making the medium free from BSE/TSE risks. ISP MiVeg Medium No. 6 (Peptone Yeast Extract Iron MiVeg 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).

MiVeg peptone, MiVeg peptone No.3 and yeast extract supply carbon, nitrogen, sulphur, vitamin B complex and other essential growth nutrients. Dipotassium hydrogen phosphate buffer the medium.

#### Methodology

Suspend 37.58 grams of powder media in 1000 ml distilled water. Mix thoroughly and 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.

#### Quality Control

##### Physical Appearance

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

##### Gelling

Firm, comparable with 1.5% Agar gel.

##### Colour and Clarity of prepared medium

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.

##### pH Range

6.5 - 6.9

### Cultural Response/Characteristics

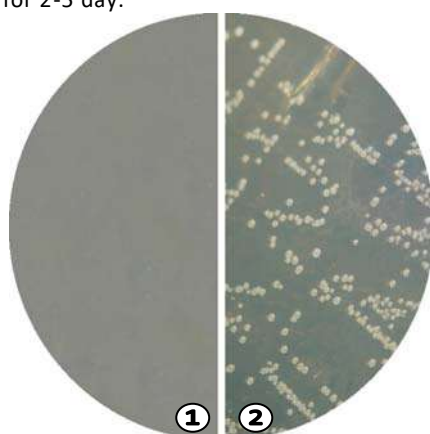
Cultural characteristics observed after an incubation at 25-30°C for 48-72 hours.

Organisms (ATCC)	Growth
<i>Streptomyces achromogenes</i> (12767)	good-luxuriant
<i>Streptomyces albus</i> (3006)	good-luxuriant
<i>Streptomyces lavendulae</i> (8664)	good-luxuriant

## Storage and Shelf Life

**Dried Media:** Store below 30°C in tightly closed container and use before expiry date as mentioned on the label.

**Prepared Media:** 2-8° in sealable plastic bags for 2-5 day.



**VM1361 ISP MiVeg Medium No. 6**  
(Against Dark Background)

1. Control
2. *Streptomyces lavendulae*

## Further Reading

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.

## Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conform solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
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