

Technical Data

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

M361

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

Composition**

Ingredients	Gms / Litre
Peptic digest of animal tissue	15.000
Proteose peptone	5.000
Yeast extract	1.000
Ferric ammonium citrate	0.500
Dipotassium phosphate	1.000
Sodium thiosulphate	0.080
Agar	15.000
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. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and pour into sterile Petri plates.

Principle And Interpretation

ISP Medium No. 6 (Peptone Yeast Extract Iron Agar) is recommended by International Streptomyces Project for the cultivation and maintenance of *Streptomyces* species (1, 2).

Peptic digest of animal tissue, proteose peptone and yeast extract provide carbon, nitrogen, sulphur, vitamin B complex and other essential growth nutrients. Dipotassium hydrogen phosphate gives the medium good buffering capacity. Ferric ammonium citrate and sodium thiosulphate together serve as hydrogen sulphide indicator system.

Quality Control

Appearance Cream to yellow 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 at 25° C. pH : 6.7 ± 0.2

pH 6.50-6.90

G. K. I.D.

Cultural Response M361: Cultural characteristics observed after an incubation at 30-32°C for 18-48 hours

Organism Growth

Cultural ResponseStreptomyces lavendulaegood-luxuriantATCC 8664good-luxuriantStreptomyces achromogenesgood-luxuriantATCC 12767good-luxuriantStreptomyces albus subspgood-luxuriantalbus ATCC 3006good-luxuriant

Storage and Shelf Life

Store below 30°C in tightly closed container and prepared medium at 2-8°C. Use before expiry period on the label.

Reference

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

Revision : 2 / 2015

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