



Soyabean Casein Digest Medium with Yeast Extract and Hemin w/o Dextrose (Tryptone Soya Broth with Yeast Extract and Hemin w/o Dextrose)

M207

Soyabean Casein Digest Medium with Yeast Extract and Hemin without Dextrose is a highly nutritious medium which supports luxuriant growth of fastidious bacteria.

Composition**

Ingredients	Gms / Litre
Casein enzymic hydrolysate	17.000
Papaic digest of soyabean meal	3.000
Sodium chloride	5.000
Dibasic potassium phosphate	2.500
Yeast extract	5.000
Hemin	0.020
Final pH (at 25°C)	7.3±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 32.52 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 dispense as desired.

Principle And Interpretation

Soyabean Casein Digest Medium with Yeast Extract and Hemin is prepared according to the formulation of USP (1). It is a highly nutritious medium for cultivating fastidious bacteria. It can also be used as general, all purpose cultivation medium (2,3).

Casein enzymic hydrolysate, papaic digest of soyabean meal and yeast extract supply nitrogenous and carbonaceous nutrients, trace ingredients and vitamin B complex for the growth of microorganisms. Hemin provides additional growth factors. Dipotassium phosphate maintains buffering conditions in the medium.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Colour and Clarity of prepared medium

Light yellow coloured clear solution without any precipitate

Reaction

Reaction of 3.25% w/v aqueous solution at 25°C. pH : 7.3±0.2

pH

7.10-7.50

Cultural Response

M207: Cultural characteristics observed after an incubation at 35 - 37°C for 18 - 24 hours.

Organism	Inoculum (CFU)	Growth
Cultural Response		
<i>Bordetella pertussis</i> ATCC 8467	50-100	luxuriant
<i>Neisseria meningitidis</i> ATCC 13090	50-100	luxuriant
<i>Streptococcus pyogenes</i> ATCC 19615	50-100	luxuriant

Storage and Shelf Life

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

Reference

1. The United States Pharmacopeia, 1980, XX Revision, United States Pharmacopeial Convention, Rockville, Md.
2. MacFaddin J.F., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. I, Williams and Wilkins, Baltimore.
3. Mashimo P. A. and Ellison S A., 1959, J. Bacteriol., 78:636.

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