



Dehydrated Culture Media
Bases / Media Supplements

Technical Information

Soyabean Casein Digest Medium with Yeast Extract and

Product Code: DM 1207

Application 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

Principle & Interpretation

Soyabean Casein Digest Medium with Yeast Extract and Hemin is prepared as per the formulation of USP ⁽¹⁾. It is a highly nutritious medium for cultivating fastidious bacteria. It can also be used as general and 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.

Methodology

Suspend 32.52 grams of powder media in 1000 ml distilled water. Shake well & heat to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and dispense as desired.

Quality Control

Physical 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 Range:- 7.10-7.50

Cultural Response/Characteristics

DM 1207: Cultural characteristics observed after an incubation at 35 - 37°C for 18 - 24 hours.

Organism	Inoculum (CFU)	Growth
<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





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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: 2-8⁰ in sealable plastic bags for 2-5 days.

Further Reading

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.

Disclaimer :

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