



Fluid Soybean Casein Digest Medium (Soybean Casein Digest Medium) MJ011

Fluid Soybean Casein Digest medium is a general purpose medium used for cultivation of a wide variety of microorganisms and recommended for sterility testing in accordance with Japanese Pharmacopoeia.

Composition**

Ingredients	Gms / Litre
Casein peptone	17.000
Soybean peptone	3.000
Sodium chloride	5.000
Dipotassium hydrogen phosphate	2.500
Glucose monohydrate	2.500
pH after sterilization (at 25°C)	7.3±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 29.77 grams (the equivalent of dehydrated medium) in 1000 ml purified/ distilled water. Heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle And Interpretation

Soyabean Casein Digest Medium is recommended by Japanese Pharmacopoeia, 1996 as a sterility testing medium (1). It is used for qualitative and quantitative estimation of viable microorganism present in pharmaceutical articles. (2). It is also employed in studying effectiveness of culture media and confirmation of antimicrobial substance.

The combination of casein peptone and soyabean peptone makes this medium nutritious by providing amino acids and long chain peptides for the growth of microorganisms. Natural sugars in soyabean promote growth of fastidious organism. Glucose is the fermentable source of carbon and dipotassium phosphate serves as the buffer in the medium. Sodium chloride maintains the osmotic balance of 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 2.98% w/v aqueous solution at 25°C. pH : 7.3±0.2

pH

7.10-7.50

Cultural Response

MJ011: Cultural characteristics observed (i) for Bacteria after an incubation at 30-35°C for 18-48 hours and (ii) for Fungi after an incubation at 20-25°C for 2-5 days.

Organism	Inoculum (CFU)	Growth
Cultural Response		
<i>Bacillus subtilis</i> ATCC 6633	50-100	luxuriant
<i>Bacteroides vulgatus</i> ATCC 8482	50-100	luxuriant
<i>Candida albicans</i> ATCC 10231	50-100	luxuriant

<i>Neisseria meningitidis</i> ATCC 50-100 13090		luxuriant
<i>Staphylococcus aureus</i> ATCC 25923	50-100	luxuriant
<i>Streptococcus pyogenes</i> ATCC 19615	50-100	good-luxuriant
<i>Staphylococcus aureus</i> ATCC 6538	50-100	good-luxuriant
<i>Pseudomonas aeruginosa</i> ATCC 9027	50-100	good - 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 Japanese Pharmacopoeia, 1996, XIII, The Society of Japanese Pharmacopoeia, Tokyo, Japan.
- 2.Wright and Welch, 1959-60, Antibiotics Ann., 61.

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