



Soyabean Casein Digest Agar w/ Inhibitor

M1572

Soyabean Casein Digest Agar w/ Inhibitor, a general purpose medium used for cultivation of a wide variety of microorganisms, while inhibiting growth of *Staphylococci*.

Composition**

Ingredients	Gms / Litre
Casein enzymic hydrolysate	15.000
Papaic digest of soyabean meal	5.000
Sodium chloride	5.000
Sodium deoxycholate	0.500
Agar	15.000
Final pH (at 25°C)	7.2±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 40.5 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

Soyabean Casein Digest Agar is recommended by various pharmacopoeias as sterility testing medium (1, 2). It is also used for the sensitivity testing by the tube dilution method for antimicrobial agents (3). Gunn et al (4) used this medium for the growth of fastidious organisms and to study haemolytic reaction after addition of 5% v/v blood.

The combination of casein enzymic hydrolysate and papaic digest of soyabean meal makes the medium nutritious by providing amino acids and long chain peptides for the growth of microorganisms. Sodium chloride maintains the osmotic balance. Sodium deoxycholate inhibits the growth of *Staphylococci*.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Gelling

Firm, comparable with 1.5% Agar gel

Colour and Clarity of prepared medium

Light yellow to medium amber coloured clear to slightly opalescent gel forms in Petri plates

Reaction

Reaction of 4.05% w/v aqueous solution at 25°C. pH : 7.2±0.2

pH

7.00-7.40

Cultural Response

M1572: Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

Organism	Inoculum (CFU)	Growth	Recovery
<i>Bacteroides vulgatus</i> ATCC 8482	50-100	luxuriant	≥50%
<i>Candida albicans</i> ATCC 10231	50-100	good-luxuriant	≥50%
<i>Neisseria meningitidis</i> ATCC 13090	50-100	luxuriant	≥50%
<i>Staphylococcus aureus</i> ATCC 25923	≥10 ⁵	inhibited	0%

<i>Staphylococcus aureus</i> ATCC 25923	$\geq 10^3$	inhibited	0%
<i>Streptococcus pyogenes</i> ATCC 19615	50-100	good-luxuriant	$\geq 50\%$

Storage and Shelf Life

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

Reference

- 1.The United States Pharmacopoeia / National Formulary, 2008, USP31, The United States Pharmacopeial Convention Inc., Rockville, MD.
- 2.Indian Pharmacopoeia, 2007, Govt. of India, Ministry of Health and Family Welfare, New Delhi, India.
- 3.Wright and Welch, 1959-60, Antibiotics Ann., 61.
- 4.Gunn B. A. et al, 1977, J. Clin. Microbiol., 5(6) : 650.

Revision : 1 / 2011



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