

Soyabean Casein Digest Agar (Casein Soyabean Digest Agar) IP (Medium 2)

Intended Use

Soybean Casein Digest Agar is a general-purpose medium used for the isolation and cultivation of a wide variety of fastidious and non-fastidious microorganisms in compliance with IP.

Summary

Soyabean Casein Digest Agar (SCDA) is used for total aerobic microbial count and antimicrobial preservative effective test. It is also used for testing bacterial contaminants in cosmetics and for a multitude of purpose including maintenance of stock cultures, plate counts and as a base for media containing blood. Gunn *et al.*, used this medium for the study of haemolytic reactions after addition of 5% v/v blood. It is also used in accordance with the microbial limit testing harmonized methodology of USP/EP/BP/JP/IP.

Principle

The combination of pancreatic digest of casein and papic digest of soyabean makes the medium highly nutritious by supplying organic nitrogen, particularly amino acids and long chain peptides. Sodium chloride maintains the osmotic balance. Soyabean Casein Digest Agar may be supplemented with blood to provide a more nutritious medium for fastidious organisms, or with antimicrobials to provide a selective medium for specific organisms out of a mixed flora sample. Since Soyabean Casein Digest Agar contains no added carbohydrate, it may be used with added blood to determine haemolysis. When Soyabean Casein Digest Agar is supplemented with 0.7 g lecithin and 5 g polysorbate (Tween 80) per liter of medium, it can be used as microbial content test agar for testing quaternary ammonium compounds (collection of samples from identical areas before and after treatment with disinfectant yields data useful in evaluating cleaning procedures in environmental sanitation).

Formula*

Ingredients	g/L
Pancreatic Digest of Casein	15.0
Papic Digest of Soyabean Meal	5.0
Sodium Chloride	5.0
Agar	15.0
Final pH (at 25°C)	7.3 ± 0.2

*Adjusted to suit performance parameters.

Storage and Stability

Store dehydrated medium below 30°C in tightly closed container and the prepared medium at 2°C-8°C. Avoid freezing and overheating. Use before expiry date on the label. Once opened keep powdered medium closed to avoid hydration.

Type of Specimen

Pharmaceutical samples

Specimen Collection and Handling

Ensure that all samples are properly labelled. Follow appropriate techniques for handling samples as per established guidelines. Some samples may require special handling, such as immediate refrigeration or protection from light, follow the standard procedure. The samples must be stored and tested within the permissible time duration. After use, contaminated materials must be sterilized by autoclaving before discarding.

Directions

1. Suspend 40.00 g of the powder in 1000 mL purified / distilled water.
2. Mix thoroughly.
3. Boil with frequent agitation to dissolve the powder completely.
4. Sterilize by autoclaving at 121°C (15 psi) minutes as per validated cycle.

Quality Control

Dehydrated Appearance: Light yellow coloured, homogenous, free flowing powder.

Prepared Appearance: Light yellow coloured, very slightly opalescent gel forms in petridishes.

Growth Promotion Test: Growth promotion is carried out in accordance with the method of IP and growth is observed after an incubation at 30-35°C for ≤ 3 days for bacteria and at 30-35°C and 20-25°C for ≤ 5 days for fungi.

Growth Promoting Properties: The test results observed are within the specified temperature and shortest period of time specified in the test, inoculating ≤ 100 cfu of appropriate microorganism.

Organism (ATCC)	Growth	Incubation Temperature
<i>Escherichia coli</i> (8739)	Good	30°C-35°C
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> (6538)	Good	30°C-35°C
<i>Pseudomonas aeruginosa</i> (9027)	Good	30°C-35°C
<i>Bacillus spizizenii</i> (6633)	Good	30°C-35°C
<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar <i>Abony</i> (NCTC 6017)	Good	30°C-35°C
<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar <i>Typhimurium</i> (14028)	Good	30°C-35°C
<i>Candida albicans</i> 3147 (10231)	Good	30°C-35°C
<i>Candida albicans</i> 3147 (10231)	Good	20°C-25°C
<i>Aspergillus brasiliensis</i> WLRI 034(120) (16404)	Good	30°C-35°C
<i>Aspergillus brasiliensis</i> WLR 034(120) (16404)	Good	20°C-25°C

Note: For good growth - Growth obtained on test media should not differ by a factor greater than 2 from calculated value for a standardized inoculum.

Performance and Evaluation

Performance of the product is dependent on following parameters as per product label claim:

1. Directions
2. Storage
3. Expiry

Warranty

This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

Reference

1. The United States Pharmacopoeia, 2018, The United States Pharmacopoeial Convention Inc., Rockville, MD.
2. British Pharmacopoeia, 2011, The Stationery office British Pharmacopoeia
3. European Pharmacopoeia, 2011, European Dept. for the quality of Medicines.
4. Japanese Pharmacopoeia, 2008.
5. Gunn. B. A. et al, 1977, J. Clin. Microbiol., 5(6): 650
6. The Indian Pharmacopoeia 2010, Govt of India, Ministry of Health and Family Welfare, New Delhi.
7. Data on file: Microxpress®, A Division of Tulip Diagnostics (P) Ltd.

Product Presentation:

Cat No.	Product description	Pack Size
201190220500	Dehydrated Culture Media	500 g

 Temperature Limit	 Manufacturer	 LOT	Batch Code	 Date of Manufacture	 This way up	 RO	Received on
 REF Catalogue Number	 Consult Instructions for use	 Use-by Date	 Hygroscopic keep container tightly closed	 OO	Opened on		

Revision: 0825/VER-03

Disclaimer

Information provided is based on our inhouse technical data on file, it is recommended that user should validate at his end for suitable use of the product.