Soyabean Casein Digest Medium (Harmonized)

Intended Use
Soyabean Casein Digest Medium is used for the total bacterial detection, cultivation and recommended for sterility testing in accordance with microbial limit testing by harmonized methodology of USP/EP/BP/JP/IP.

Summary
Soyabean Casein Digest Medium (SCDM) is widely used for the cultivation of microorganisms from environmental sources, supporting the growth of a wide variety of microorganisms including common aerobic, facultative and anaerobic bacteria and fungi. It is also used for preparing dilutions of organisms for colony counts and preparation of standard inocula for disc diffusion and dilution antimicrobial susceptibility testing as standardized by the National Committee for Clinical Laboratory Standards (NCCLS). This medium is used in sterility testing for the detection of contamination with low incidence fungi and aerobic bacteria and in the performance of microbial limit test. It is used in the coliphage detection procedure, a Methodology in Standard Methods for the Examination of Water and Wastewater. Soyabean Casein Digest Agar and Medium are included in the Bacteriological Analytical Manual for food and cosmetics testing, in the Compendia of Methods for the examination of milk, water and wastewater and foods.

Principle
The combination of pancreatic digest of casein and papaic 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. In Soyabean Casein Digest Medium, glucose monohydrate is an energy source and dibasic hydrogen phosphate acts as a buffer to control pH. Soyabean Casein Digest Medium 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.

Formula*

Ingredients	g/L
Pancreatic Digest of Casein	17.0
Papaic Digest of Soyabean	3.0
Glucose Monohydrate	2.5
Sodium Chloride	5.0
Dibasic Hydrogen Phosphate	2.5
Final pH (at 25°C)	7.3 ± 0.2

*Adjusted to suit performance parameters.

Directions
1. Bring the Soyabean Casein Digest Medium (Harmonized) vial to the room temperature 22°C-30°C.
2. Use Soyabean Casein Digest Medium (Harmonized) as per required application.

Quality Control
Appearance: Light amber coloured, clear solution without any precipitate.
Growth Promotion Test: Growth promotion is carried out in accordance with the harmonized method of USP/EP/JP/BP/IP and growth is observed after an incubation at 30°C- 35°C for ≤ 3 days for bacteria and ≤ 5 days for fungi.
Growth Promoting Properties: The test results observed are within the specified temperature and shortest period of time, inoculating ≤ 100 cfu (at 30°C- 35°C for ≤ 3 days for bacteria and ≤ 5 days for fungi).

Organism (ATCC)	Growth
Staphylococcus aureus subsp. *aureus* (6538)	Good
Pseudomonas aeruginosa (9027)	Good
Bacillus spizizenii (6633)	Good
Candida albicans 3147 (10231)	Good
Aspergillus brasiliensis WLRI 034 (120) (16404)	Good

Validation and Growth Promotion: (Growth promotion is carried out after an incubation at 20°C-25°C for ≤ 3 days for bacteria and ≤ 5 days for fungi as per USP/EP/JP/BP/IP).

Organism (ATCC)	Growth
Candida albicans 3147 (10231)	Good
Bacillus spizizenii (6633)	Good
Aspergillus brasiliensis WLRI 034 (120) (16404)	Good

Note: Inoculum cfu for good growth is 10-100.

Remarks

1. Do not use media bottles that exhibit any damage, cracks, microbial contamination, discolouration, drying or any other sign of deterioration.
2. Good laboratory practices and hazard precautions must be observed at all times.
3. After use media containers, sample, sample containers and other contaminated materials must be sterilized or incinerated before discarding.
4. All autoclaved biohazards should be disposed off in accordance with state and local environmental regulations.
5. Only qualified personnel who have been trained in microbiological procedures should handle all infected specimens and inoculated culture media.
6. User should ensure that any machinery or apparatus used and by chance contaminated must be safely disinfected or sterilized. The environment in which microbiological cultures are handled must also be taken into account.

Storage and Stability

1. Store the ready to use Soyabean Casein Digest Medium (Harmonized) at 15°C-25°C in a cool, dry place away from light.
2. Stability of the kit is as per expiry date mentioned on the label.

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.

References

1. Data on file: Microxpress®, A Division of Tulip Diagnostics (P) Ltd.

Product Presentation:

Cat. No.	Product Description	Pack Size
203190610010	Ready Prepared Tube	25 x 10 mL
203190610100	Bottle Media	100 mL
203192420090	Bottle Media	10 x 90 mL