



Technical Data Sheet

Soybean Casein Digest Agar

RDM-SCDA-01

Principle

Soyabean casein digest agar is used for cultivation of a wide variety of organisms. It is also recommended by USP, IP and EP for sterility testing and as medium for microbial limit testing of pharmaceutical products and raw material used in pharmaceutical industries. The medium is a highly nutritious and prepared in accordance with the harmonized principles of USP/EP/IP. Medium is consisting of pancreatic digest of casein, papain digest of soyabean, sodium chloride and agar. The pancreatic digest of casein, papain digest of soybean provides ample amount of the carbon and nitrogen source and trace. Sodium chloride maintains the osmotic balance and agar is used as solidifying agent.

Use: Recommended for the isolation and cultivation of fastidious microorganisms from clinical and non-clinical samples.

Contents*

Ingredients

	Gram/Litre
Pancreatic Digest of Casein	15.00
Papain Digest of Soyabean	5.00
Sodium Chloride	5.00
Agar	15.00
pH at 25°C	7.3 ±0.2

* Formula adjusted for optimum performance and parameters

Directions: Dissolve 40.00 grams in 1000 ml distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121 °C) for 15 min, cool it to 42-45 °C and distribute aseptically in petri plates and allow to solidify. Ensure complete solidification and inoculate test sample aseptically.

Specimens types analyzed

Pharmaceutical samples, clinical and non-clinical sample.

Precautions to be taken

These microbial media are intended for the in-vitro use only. All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

Performance and Evaluation

The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

Quality Control

Appearance	Light beige colored, free-flowing, homogeneous
Reaction of 4.0% solution	7.30 ±0.2 at 25 °C
pH	7.10- 7.50
Gelling	Firm comparable with 1.5% agar gel
Color and clarity of ready medium	Light amber, clear opalescent gel
Growth Promotion properties	Best at ≤ 100 CFU at 32-37 °C for 18-72 h
Indicative properties	Optimum at ≤ 100 CFU at 32-37 °C for 18-48 h
Negative control	Performed using sterile distilled water

Different Microbial Response

Organism	ATCC	Growth	Recovery (%)	Incubation
<i>Staphylococcus aureus</i>	25923	Luxurious	90.22	30-37°C, 18-24 hrs
<i>Bacillus spizizenii</i>	6633	Luxurious	90.80	30-37°C, 18-24 hrs
<i>Pseudomonas aeruginosa</i>	27853	Luxurious	88.30	30-37°C, 18-24 hrs
<i>Salmonella typhi</i>	6539	Luxurious	92.31	30-37°C, 18-24 hrs
<i>Escherichia coli</i>	8739	Luxurious	91.86	30-37°C, 18-24 hrs
<i>Candida albicans</i>	10231	Luxurious	60-46%	30-37°C, 24-72 hrs
<i>Aspergillus brasiliensis</i>	16404	Luxurious	72.41%	30-37°C, 24-72 hrs
<i>Clostridium sporogenes</i>	19404	Luxurious	60.43%	30-37°C, 24-72 hrs

Storage and Shelf Life

Hygroscopic; keep container tightly closed. Store in cool dry place.

Disposal: To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.

Reference

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