



Soyabean Casein Digest Broth

RDM-SCDB-01

Principle

Soyabean casein digest broth is used for cultivation of a wide variety of organisms. It is also recommended by USP, IP, JP 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/JP. Medium is consisting of pancreatic digest of casein, papain digest of soyabean, sodium chloride, dipotassium hydrogen phosphate and glucose monohydrate. The pancreatic digest of casein and papain digest of soyabean, provide ample amount of the carbon and nitrogen source and trace minerals in addition to that the glucose monohydrate serves as carbon and energy source. Sodium chloride maintains the osmotic balance and dipotassium hydrogen phosphate act as buffering agent.

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

Contents*

Ingredients	Gram/Litre
Pancreatic Digest of Casein	17.00
Papain Digest of Soyabean	3.00
Sodium Chloride	5.00
Dipotassium Hydrogen Phosphate	2.50
Glucose Monohydrate	2.50
pH at 25°C	7.3 ±0.2

* Formula adjusted for optimum performance and parameters

Directions: Dissolve 30.00 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 inoculate test sample aseptically.

Specimens types analyzed

Pharmaceutical samples, clinical and non-clinical samples etc.

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 3.0% solution	7.3 ±0.2 at 25 °C
pH	7.10- 7.50
Color and clarity of ready medium	Light amber, clear solution.

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	Inoculum	Growth	Incubation Temperature	Incubation
Gram-positive bacteria					
<i>Staphylococcus aureus</i>	25923	50-100	Luxurious	30-37°C	30-37°C, 18-24 hours
<i>Bacillus spizizenii</i>	6633	50-100	Luxurious	30-37°C	30-37°C, 18-24 hours
Gram negative bacteria					
<i>Pseudomonas aeruginosa</i>	27853	50-100	Luxurious	30-37°C	30-37°C, 18-24 hours
<i>Salmonella typhi</i>	6539	50-100	Luxurious	30-37°C	30-37°C, 18-24 hours
<i>Escherichia coli</i>	8739	50-100	Luxurious	30-37°C	30-37°C, 18-24 hours
Yeast and fungi					
<i>Candida albicans</i>	10231	50-100	Luxurious	30-37°C	30-37°C, 24-48 hours
<i>Aspergillus brasiliensis</i>	16404	50-100	Luxurious	30-37°C	30-37°C, 24-48 hours
Anaerobic bacteria					
<i>Clostridium sporogenes</i>	19404	50-100	Luxurious	30-37°C	30-37°C, 24-48 hours

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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