

TECHNICAL DATA SHEET

Soyabean Casein Digest Medium (Harmonized)

Principle

Soybean 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 soybean, sodium chloride, dipotassium hydrogen phosphate and glucose monohydrate. The pancreatic digest of casein, papain digest of soybean which 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: For the cultivation of a wide variety of microorganisms, including bacteria and fungi.

Contents*

Ingredients	Gram/Liter
Pancreatic Digest of Casein	17.00
Papaic Digest of Soybean	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.

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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 $\pm$ 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 $\leq$ 100 CFU at 32-37°C for 18-48 h for bacteria and 25 $\pm$ 2°C for 3-5 days for Yeast and Molds.
Indicative properties	Optimum at $\leq$ 100 CFU at 32-37 °C for 18-48 h for bacteria and 25 $\pm$ 2°C for 3-5 days for Yeast and Molds.
Negative control	Performed using sterile distilled water

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Different Microbial Response: Prepare media as per the label directions. Inoculate and incubate at 30-35°C for 18-24 hours for bacteria and 20-25°C for 3-5 days for yeast and mold.

Organism	ATCC	Inoculum (CFU)	Growth
<i>Escherichia coli</i>	8739	50-100	Luxuriant
<i>Escherichia coli</i>	25922	50-100	Luxuriant
<i>Staphylococcus aureus</i>	6538	50-100	Luxuriant
<i>Staphylococcus aureus</i>	25923	50-100	Luxuriant
<i>Salmonella typhimurium</i>	14028	50-100	Luxuriant
<i>Pseudomonas aeruginosa</i>	9027	50-100	Luxuriant
<i>Pseudomonas aeruginosa</i>	27853	50-100	Luxuriant
<i>Bacillus spizizenii</i>	6633	50-100	Luxuriant
<i>Lactobacillus plantarum</i>	8014	50-100	Luxuriant
<i>Saccharomyces cerevisiae</i>	9763	50-100	Luxuriant
<i>Candida albicans</i>	10231	50-100	Luxuriant
<i>Aspergillus brasiliensis</i>	16404	50-100	Luxuriant

Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label.

Note: Sterilize media immediately after reconstitution.

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.

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Reference

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