

TECHNICAL DATA SHEET

Czapek Dox Broth

Principle

Czapek Dox Broth consists of sucrose, sodium nitrate, dipotassium phosphate, magnesium sulphate, potassium chloride and ferrous sulphate. Sucrose serves as the source of carbon while sodium nitrate serves as source of nitrogen. Dipotassium phosphate buffers the medium. Magnesium sulphate, potassium chloride, ferrous sulphate serves as sources of essential ions.

Use: Semisynthetic medium for cultivation of fungi capable of utilizing sodium nitrate as the sole source of nitrogen.

Contents*

Ingredients	Gram/Liter
Sucrose	30.00
Sodium Nitrate	3.00
Dipotassium Phosphate	1.00
Magnesium Sulphate	0.50
Potassium Chloride	0.50
Ferrous Sulphate	0.01
pH at 25°C	7.3 ±0.2

*** Formula adjusted for optimum performance and parameters**

Directions: Dissolve 35.00 grams in 1000 ml distilled water. Boil to dissolve the medium completely and 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.

OXFORD LAB FINE CHEM LLP

ISO 9001-2008 Certified Company

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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	Off white colored free flowing, homogeneous powder
Reaction of 3.5% solution	7.3 $\pm$ 0.2 at 25 °C
pH	7.10- 7.50
Color and clarity of ready medium	Light yellow colored, clear to slightly opalescent solution
Growth Promotion properties	Best at $\leq$ 100 CFU at 23-27°C for 48-72 h
Indicative properties	Optimum at $\leq$ 100 CFU at 23-27°C for 24-48 h
Negative control	Performed using sterile distilled water

Different Microbial Response: Cultural characteristics observed after incubation at 25 $\pm$ 2°C for 48-72 hours. Inoculum 50-100 CFU.

Organism	ATCC	Growth
<i>Candida albicans</i>	10231	Luxuriant
<i>Saccharomyces cerevisiae</i>	9763	Luxuriant
<i>Aspergillus brasiliensis</i>	16404	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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