



## Czapek Dox Broth

**RDM-CDB-01**

### 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:** Recommended for the general cultivation of fungi from water samples.

### Contents\*

Ingredients	Gram/Litre
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.

### 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

<b>Appearance</b>	Off white colored free flowing, homogeneous powder
<b>Reaction of 3.5% solution</b>	7.3 ±0.2 at 25 °C
<b>pH</b>	7.10- 7.50
<b>Color and clarity of ready medium</b>	Colorless clear to opalescent solution
<b>Growth Promotion properties</b>	Best at ≤ 100 CFU at 32-37 °C for 18-72 h
<b>Indicative properties</b>	Optimum at ≤ 100 CFU at 32-37 °C for 18-48 h
<b>Negative control</b>	Performed using sterile distilled water

## Different Microbial Response

Organism	ATCC	Inoculum	Growth	Incubation Temperature	Incubation period
<i>Candida albicans</i>	10231	50-100	Luxurious	33-37 °C	18-72 h
<i>Aspergillus brasiliensis</i>	16404	50-100	Luxurious	33-37 °C	18-72 h

## 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

1. Atlas, R. M. (2005). *Handbook of media for environmental microbiology*. CRC press.
2. *Difco Manual* (1998). 11<sup>th</sup> Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.
3. Rand, M. C., Arnold E. Greenberg, and Michael J. Taras, (1976), *Standard methods for the examination of water and wastewater*. Prepared and published jointly by American Public Health Association, American Water Works Association, and Water Pollution Control Federation.
4. Dox, A. W. (1910). *The intracellular enzymes of Penicillium and Aspergillus with special references to those of P. camemberti*. U.S. Dept. Agr. Bur. Anim. Ind. Bull. 120:70.

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