



Product Information Sheet

Product Number: C443

Product Name: Czapek-Dox Broth

Properties

Form:	Powder
Appearance:	White to Off-White Powder
Application:	Fungi cultivation
Solubility:	Soluble in Water
Typical Working Concentration:	35.01g/L
Storage Temp:	2-6 °C
Storage Temp of Stock Solution:	2-6 °C
Other Notes:	Czapek Dox Broth is a semi-synthetic medium used for the general cultivation of fungi.

Formula (mg/L)

Ferrous Sulfate, Heptahydrate	10
Magnesium Sulfate, Anhydrous	500
Potassium Chloride	500
Potassium Phosphate, Dibasic, Anhydrous	1000
Sodium Nitrate	3000
D-Sucrose	30000

Application Notes

Czapek-Dox broth is a semi-synthetic broth used for the cultivation of fungi. This medium is prepared according to the formula developed by Thom and Church. Czapek-Dox Broth is the modification of the original medium of Czapek-Dox as per Thom and Raper.

Sucrose serves as the only source of carbon while sodium nitrate serves as the source of nitrogen. Dipotassium phosphate buffers the medium. Magnesium sulphate, potassium chloride, and ferrous sulphate are included as essential ions necessary for growth.

References

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- S.A. Waksman, Principles of Soil Microbiology (1931)
- Thom and Raper, Manual of Aspergilli, 39 (1945)
- Thom and Church, The Aspergilli, 39 (1926)

PhytoTechnology Laboratories®

P.O. Box 12205; Shawnee Mission, KS 66282-2205

Phone: 1-888-749-8682 or 1-913-341-5343; Fax: 1-888-449-8682 or 1-913-341-5442

Web Site: www.phytotechlab.com

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