FT-A2WPZ1

Czapek-Dox Agar

For the cultivation of fungi and bacteria using sodium nitrate as a sole source of nitrogen

Product Description

Name :	**Czapek-Dox Agar**	
Catalog Number :	A2WPZ1, 500 g	
Formula in g/l :	Sucrose	30,00
	Potassium Chloride	0,50
	Sodium Nitrate	2,00
	Magnesium Glycerophosphate	0,50
	Potassium Sulfate	0,35
	Ferrous Sulfate	0,01
Final pH:	**6,8 ± 0,2 at 25°C**	

Storage: 2-30°C. Once opened keep powdered medium closed to avoid hydration.

Czapek-Dox Agar is utilized commonly for the cultivation of fungi and chlamydospore formation by *Candida albicans*. For the cultivation of acidophilic organisms such as yeast the activity of the medium may increased. It is also used for taxonomic studies of *Aspergillus, Penicillium* and *Actinomycetes.* Czapek-Dox Agar is a semi- synthetic medium which contains sodium nitrate as a sole source of nitrogen. It has the advantage of a chemically defined formulation with the magnesium glycerophosphate in this formula to prevent the precipitation of magnesium phosphate.

Directions for use

Preparation

Suspend 45,4 grams of the medium in one liter of distilled water. Mix well and dissolve by heating with frequent agitation until complete dissolution. Sterilize in autoclave at 110°C for 20 minutes. Cool to 50°C, mix well and pour into Petri dishes.
The prepared medium should be stored at 8-15°C.

Use

Inoculate the plates by spreading the sample.
Incubate at room temperature 1-2 weeks (approximate 25°C). Most *Penicillium* grow best between 20-25°C, *Aspergillus* species grow well at around 30 ° C, but *Aspergillus fumigatus* grow well at 50°C and *Candida albicans* at 25°C during 24-48 hours.

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Microbiological test

The following results were obtained in the performance of the medium from type cultures after incubation at a temperature of 25-30ºC and observed after 1-5 days.

Microorganisms	Growth
Aspergillus brasiliensis ATCC 16404	Good
Saccharomyces cerevisiae ATCC 9763	Good
Bacillus subtilis ATCC 6633	Moderate
Candida albicans ATCC 10231	Good
Staphylococcus aureus ATCC 25923	Moderate

References

- Thom y Raper. Manual of Aspergilli. Williams and Wilkins Co. Baltimore Md. 1945.
- Smith G. An Introduction to Industrial Mycology 5th Ed Arnold LR London 1960.

Ordering information

Catalog size quantities and prices may be found at http://www.interchim.com.
Please inquire for higher quantities (availability, shipment conditions).

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