Product Name : Czapek Dox Agar

Selective medium for saprophytic fungi cultivation.

TYPICAL FORMULA (G/L)

Sodium Nitrate 2.0
Magnesium Sulphate 0.5
Potassium Chloride 0.5
Ferrous Sulphate 0.01
Di-Potassium Phosphate 1.0
Sucrose 30.0
Agar 15.0
Final pH = 7.2 ± 0.2 at 25°C.

DIRECTIONS

Suspend 49.02 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize in autoclave at 121°C for 15 minutes. Mix well. Dispense in petri dishes. If it is required to adjust the reaction to pH 3.5 ± 1 add 10 mL of lactic acid 10% per L after sterilization.

DESCRIPTION

Czapek Dox Agar is a medium for the cultivation of those fungi and bacteria which are able to utilize sodium nitrate as source of nitrogen. The acidity of the medium can be increased for the cultivation of acidophilic organisms such as yeasts.

TECHNIQUE

Inoculate the medium with the specimen using a sterile needle or wire and incubate at 25-30°C for 48-72 hours.

QUALITY CONTROL

Dehydrated medium
Appearance: free-flowing, homogeneous.
Color: very light beige.
Prepared medium
Appearance: opalescent with a uniform flocculent precipitate.
Color: light amber.
Incubation conditions: 25-30°C / 48-72 hours.

Microorganism	ATCC	Growth
Aspergillus niger	9642	good
Candida albicans	10231	good

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PERFORMANCE AND LIMITATIONS

Czapek Dox Agar is especially suitable for the enrichment, cultivation and identification of bacteria and fungi present in the soil.

STORAGE

The powder is very hygroscopic: store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared medium at 2-6°C.

REFERENCES

1. Booth, C. (1971) . Methods in microbiology, vol.4.
2. Stein, R.J. (1973) . Handboock of Physiological methods.

PACKAGING

Cat. No : MB-C1095 Czapek Dox Agar	500 G

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