

Czapek Yeast Extract Agar



Medium used for the cultivation and enumeration of fungi and soil bacteria.

• CONTENTS (Liter)

Sucrose	30.0 g
Yeast Extract	5.0 g
Sodium Nitrate	3.0 g
Magnesium Sulfate	0.5 g
Potassium Chloride	0.5 g
Ferrous Sulfate	0.01 g
Zinc Sulfate	0.01 g
Copper Sulfate	0.005 g
Buffers	1.5 g
Agar	14.5 g
Final pH = 7.3 ± 0.2 at 25°C	

• PROCEDURE

Suspend 55.03 G in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45 - 50°C in water bath. Mix well. Pour into petri dishes.

• INTERPRETATION

Czapek Yeast Extract Agar is a medium used for the cultivation and enumeration of fungi and soil bacteria. Sucrose is the carbohydrate. Yeast extract provides the nitrogen and vitamin sources. Sodium nitrate serve as the source of nitrogen. Magnesium sulfate, potassium chloride, ferrous sulfate, zinc sulfate and copper sulfate provide essential ions in the medium. Buffers are the buffering agents. Agar is the solidifying agent.

• TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 25 ± 2°C for 48 hours up to 72 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: beige

Prepared medium

Appearance: turbid with precipitates

Color: light amber

Incubation conditions: 25 ± 2°C / 48 hours up to 72 hours

Microorganism	ATCC	Growth
<i>Aspergillus niger</i>	16404	good

- **STORE**

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. Store prepared medium at 2 - 8°C.

- **REFERENCES**

1. Warcup (1950) Nature 166: 117.

- **PACKAGE**

Cat. No : MB-C2147 Czapek Yeast Extract Agar	500 G
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