



Lin's Cupric Sulfate Medium

M2027

It is recommended as a differential medium for the detection of wild yeasts in yeast and swab samples.

Composition**

Ingredients	Gms / Litre
Peptone	2.000
Yeast extract	4.000
Malt extract	2.000
Dextrose	10.000
Dipotassium ortho phosphate	1.100
Ammonium chloride	0.500
Cupric sulphate anhydrous	0.550
Agar	20.000
Final pH (at 25°C)	5.3±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 40.15 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Mix well and pour into sterile Petri plates.

Principle And Interpretation

Lin's Cupric Sulfate Medium is used for the detection of wild yeast. This medium suppressed the growth of culture yeasts and supported that of most non-*Saccharomyces* wild yeasts. It is not suitable for *Saccharomyces* wild yeasts(1).

Peptone, malt extract, and yeast extract provide necessary nutrients to support the growth of yeasts. Dextrose is the suitable carbohydrate for the growth of yeasts. Dipotassium ortho phosphate and Cupric sulphate suppresses culture yeasts.

Quality Control

Appearance

Light yellow to yellow homogeneous free flowing powder

Gelling

Firm, comparable with 2.0% agar gel.

Colour and Clarity of prepared medium

Yellow coloured slightly opalescent gel forms in Petri plates.

Reaction

Reaction of 4.45% aqueous solution at 25°C. pH : 6.9±0.2

Cultural Response

M2027: Cultural characteristics observed after an incubation at 30°C for 3 days.

Organism	Inoculum (CFU)	Growth	Recovery
<i>Candida albicans</i> ATCC 10231	50-100	luxuriant	≥50%
<i>Candida kruisei</i> ATCC 24408	50-100	luxuriant	≥50%
<i>Saccharomyces cerevisiae</i> ATCC 9763	50-100	luxuriant	≥50%

Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2-8°C. Use before expiry date on the label.

References

1) J.E. Siebel son's company, Enzyme products division, Miles Laboratories, Inc.

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