

TM 2161 – LIN'S CUPRIC SULFATE MEDIUM

INTENDED USE

Differential medium for the detection of wild yeasts.

PRODUCT SUMMARY AND EXPLANATION

Lin's Cupric Sulfate Medium is used for the detection of wild yeast. This medium suppressed the growth of culture yeasts and support that of most non-*Saccharomyces* wild yeasts.

COMPOSITION

Ingredients	Gms / Ltr
Peptone	2.000
Yeast extract	4.000
Malt extract	2.000
Dextrose(Glucose)	10.000
Dipotassium hydrogen phosphate	1.100
Ammonium chloride	0.500
Copper sulphate	0.550
Agar	20.000

PRINCIPLE

This medium consists of Peptone, malt extract and yeast extract which provides carbon, nitrogen compounds, long chain amino acids, vitamins, trace elements and other necessary nutrients to support the growth of yeasts. Dextrose (Glucose) is the suitable carbohydrate for the growth of yeasts. Dipotassium hydrogen phosphate and Copper sulphate suppresses culture yeasts.

INSTRUCTION FOR USE

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

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Light yellow to yellow homogeneous free flowing powder.
Appearance of prepared medium	: Yellow coloured slightly opalescent gel forms in Petri plates.
pH (at 25°C)	: 5.3 ± 0.2

INTERPRETATION

Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period



<i>Candida krusei</i>	24408	10-100	Luxuriant	>=70%	30°C	3 Days
<i>Candida albicans</i>	10231	10-100	Luxuriant	>=70%	30°C	3 Days
<i>Saccharomyces cerevisiae</i>	9763	10-100	Luxuriant	>=70%	30°C	3 Days

PACKAGING:

In pack size of 100 gm and 500 gm bottles.

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.










Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

1. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
2. J.E. Siebel son's company, Enzyme products division, Miles Laboratories, Inc.
3. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock, D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.

 GMP Good Manufacturing Practices Certified	 Best Before	 QTY. Quantity	 REF Catalogue Number	 Manufacturer
 Temperature Unit	 LOT/ B. NO. Lot / Batch Number	 Consults Instructions for Use	 QR Code	

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

***For Lab Use Only**
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