

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 2.000 10.000 1.100 | | |
| Malt extract | | | |
| Dextrose(Glucose) | | | |
| Dipotassium hydrogen phosphate | | | |
| 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

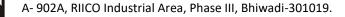
| Appearance of Powder | : Light yellow to yellow homogeneous free flowing powder. |
|-------------------------------|--|
| Appearance of prepared medium | : Yellow coloured slightly opalescent gel forms in Petri plates. |
| pH (at 25°C) | : 5.3 ± 0.2 |

INTERPRETATION

Cultural characteristics observed after incubation.

| | Microorganism | ATCC | lnoculum (CFU/ml) | Growth | Recovery | Incubation Temperature | Incubation Period |
|--|---------------|------|----------------------|--------|----------|---------------------------|----------------------|
|--|---------------|------|----------------------|--------|----------|---------------------------|----------------------|

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PRODUCT DATA SHEET

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| Candida kruisei | 24408 | 10-100 | Luxuriant | >=70% | 30°C | 3 Days |
|-----------------------------|-------|--------|-----------|-------|------|--------|
| Candida albicans | 10231 | 10-100 | Luxuriant | >=70% | 30°C | 3 Days |
| Saccharomyces cerevisiae | 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.

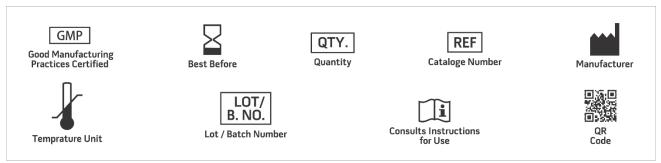
Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

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.



NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices. *For Lab Use Only Revision: 08 Nov., 2019

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