

TM 024 – NYSTATIN ASSAY BROTH (ANTIBIOTIC ASSAY MEDIUM NO. 13)

INTENDED USE

For microbiological assay of Candicidin using *Saccharomyces cerevisiae*.

PRODUCT SUMMARY AND EXPLANATION

This medium is formulated in accordance to CFR and is numerically identical with the name assigned by Groove and Randall. Schmidt & Moyer has reported the use of antibiotic assay medium for liquid formulation in performance of antibiotic assay. This medium is widely used in turbidometric assay of antifungals like candicidin using test organism like *Saccharomyces cerevisiae*. The is medium is also termed Sabouraud Liquid Broth Modified or Fluid Sabouraud Medium. Turbidimetric antibiotic assay is based on the change or inhibition of growth of a test microorganism in a liquid medium containing a uniform concentration of an antibiotic.

COMPOSITION

Ingredients	Gms / Ltr
Peptone	10.000
Dextrose	20.000

PRINCIPLE

The medium consists of peptone that provides essential nutrients and growth promoting factors and Dextrose serves as a carbon source. Optimal pH for growth of *Saccharomyces cerevisiae* is maintained in this medium.

INSTRUCTION FOR USE

- Dissolve 30.0 grams in 1000 ml distilled water.
- Heat if necessary to dissolve the medium completely. Cool and dispense into tubes or flasks as desired.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

- Appearance of Powder** : Cream to yellow homogeneous free flowing powder.
Appearance of prepared medium : Light amber coloured clear solution without any precipitate.
pH (at 25°C) : 5.6 ± 0.2

INTERPRETATION

Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Serial dilution with	Incubation Temperature	Incubation Period
<i>Saccharomyces cerevisiae</i>	9763	10-100	Luxuriant	Candicidin	25-30°C	18-24 Hours



PACKAGING:

In pack size of 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. 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
3. Grove and Randall, 1955, Assay Methods of Antibiotics Medical Encyclopedia, Inc. New York.
4. Tests and Methods of Assay of Antibiotics and Antibiotic containing Drugs, FDA, CFR, 1983 Title 21, Part436,Subpart D, Washington, D.C.: U.S. Government Printing Office, paragraphs 436, 100-436, 106, p. 242-259,(April 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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