

## TM 115 – FUNGAL BROTH W/ LOW pH (MYCOLOGICAL BROTH W/ LOW pH)

### INTENDED USE

For selective enumeration and cultivation of saprophytic fungi and aciduric bacteria.

### PRODUCT SUMMARY AND EXPLANATION

Mycological media are basal media to which antifungal agents may be added for checking their effect on fungi or bacteria to render them selective for isolation and cultivation of fungi. Fungal Broth with low pH is used for saprophytic fungi. Earlier media for fungi generally relied on an acidic pH to make the media less suitable for the growth of many bacteria. Fungal Agar w/ low pH is prepared according to the formulation suggested by Huppert and Walker. Fungal Agar w/ low pH is a selective agar for culturing and enumerating fungi and aciduric bacteria from beverages, poultry and clinical material. Fungal Broth w/ low pH is similar in composition to Fungal Agar w/ low pH, except agar.

### COMPOSITION

Ingredients	Gms / Ltr
Soya peptone	10.000
Dextrose (Glucose)	40.000

### PRINCIPLE

The medium consists of Soya peptone in the medium which provides nitrogen, vitamins and minerals necessary to support bacterial growth. Dextrose is a carbon source required for the growth of fungi.

### INSTRUCTION FOR USE

- Dissolve 50.0 grams in 1000 ml purified/distilled water.
- Heat if necessary to dissolve the medium completely.
- Dispense into tubes or flasks as desired and 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 in tubes.  
**pH (at 25°C)** : 4.8 ± 0.2

### INTERPRETATION

Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
<i>Aspergillus brasiliensis</i>	16404	10-100	Luxuriant	>=70%	25-30°C	48-72 Hours



<i>Candida albicans</i>	10231	10-100	Luxuriant	>=70%	25-30°C	48-72 Hours
<i>Lactobacillus acidophilus</i>	11506	50-100	Luxuriant	>=70%	25-30°C	48-72 Hours
<i>Saccharomyces cerevisiae</i>	9763	10-100	Luxuriant	>=70%	25-30°C	48-72 Hours
<i>Saccharomyces uvarum</i>	28098	10-100	Luxuriant	>=70%	25-30°C	48-72 Hours
<i>Staphylococcus aureus subsp. aureus</i>	25923	>=10 <sup>3</sup>	Inhibited	0%	25-30°C	48-72 Hours
<i>Trichophyton mentagrophytes</i>	9533	10-100	Luxuriant	>=70%	25-30°C	Upto 7 Days

**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. A. J. Clin. Path., 1951, 21: 684.
2. Huppert M., and Walker L. J., 1958, Am. J. Clin. Pathol., 29:291.
3. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
4. 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.
5. Salfinger Y., and Tortorello M.L., 2015, Compendium of Methods for the Microbiological Examination of Foods, 5th Ed., American Public Health Association, Washington, D.C.
6. Van Riesen and Jensen, 1958, Am. J. Med. Technol., 24:123
7. Wetzler, Musick, Johnson and Mackenzie, 1962, Am. J. Publ. Hlth., 52:460.



<b>GMP</b> Good Manufacturing Practices Certified	<b>IVD</b> For In Vitro Diagnostic Use	<b>QTY.</b> Quantity	<b>LOT/B. NO.</b> Lot / Batch Number	<b>REF</b> Catalogue Number	 Manufacturer
 Temperature Unit	<b>EC REP</b> MedNet GmbH Baukstrasse 10, 49163 Muenster, Germany Authorized Representative	 European Conformity	 QR Code	 Consults Instructions for Use	 Best Before

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