

# TM 1329 – APRY AGAR BASE

### **INTENDED USE**

For detection and isolation of acid resistant yeasts, Zygosaccharomyces bacillii and Zygosaccharomyces rouxii in food products.

### PRODUCT SUMMARY AND EXPLANATION

Preservation of salads, salad dressing usually depends on the vinegar (acetic acid) or lemon juice present. The microflora causing salad dressings to spoil seems quite restricted. These spoilage organisms come from the ingredients, from manufacturing equipment or from air Yeast Zygosaccharomyces has a long history of spoilage in the food industry. Zygosaccharomyces species is described as osmophilic, suggesting a habitat restricted to high solute environments. Zygosaccharomyces is extraordinarily resistant to common preservatives used in juices, concentrates and wine. Addition of acetic acid and potassium sorbate allows the growth of acid resistant yeasts.

### **COMPOSITION**

Ingredients	Gms / Ltr		
Peptone	5.000		
Tryptone	10.000		
Yeast extract	2.500		
Dextrose (Glucose)	20.000		
Fructose	30.000		
Sodium chloride	25.000		
Agar	15.000		

## **PRINCIPLE**

The medium contains tryptone, peptone and yeast extract which provide carbonaceous and nitrogenous compounds, vitamin B complex and other growth nutrients. Glucose and fructose provide an energy source.

# **INSTRUCTION FOR USE**

- Dissolve 107.5 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 aseptically add 5 ml concentrated acetic acid and 1 ml of 10% Potassium Sorbate.
- Mix well and pour into sterile Petri plates.

# **QUALITY CONTROL SPECIFICATIONS**

**Appearance of Powder** : Cream to yellow homogeneous free flowing powder.

: Light yellow coloured clear to slightly opalescent gel forms in Petri plates. Appearance of prepared medium

: 6.0 ± 0.2 pH (at 25°C)

### **INTERPRETATION**

Cultural characteristics observed after incubation with added 5 ml conc. acetic acid and 1 ml of 10% Potassium sorbate.











Microorganism	Strain	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
Zygosaccharomyces bailli	70492 DSM	50-100	Good- luxuriant	>=50%	30°C	72 Hours
Zygosaccharomyces rouxii	34890 ATCC	50-100	Good- luxuriant	>=50%	30°C	72 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.

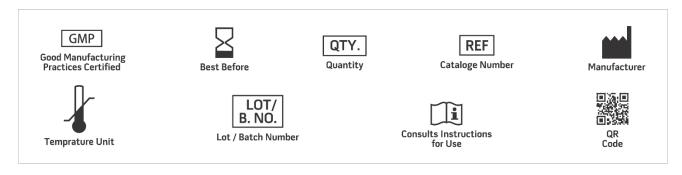
**Product Deterioration:** Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

#### **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. 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.
- 4. Thomas S. and Davenport R. R., 1985, Zygosaccharomyces bailii, A Profile of Characteristics and Spoilage Activities, Food Microbiology 2:157-169.



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

\*For Lab Use Only
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