

Certificate of Analysis

Product: YPD Sterile Solution
Catalog No.: 4001-0X4; 4001-034; 4001034
Lot No.: 81277

YPD Sterile Solution: Molecular Biology Certified Yeast Growth Medium

Rich Medium for the growth of *S. cerevisiae* in liquid medium.

Formulation and Molecular Biological Specifications of Components:

Contents Per Liter: 20 g Peptone-Y, 10 g Yeast Extract, 20 g Dextrose.
Small quantities of biological buffers have been added for proper pH adjustment.

Reference: Ronald M. Atlas, (1997) Handbook of Microbiological Media, 2nd Edition L.C. Parks (ed.), CRC Press, NY.

Recommended

Use:

For laboratory use only.

Storage:

Store YPD Sterile Solution at ambient temperature (15-30°C).

Shelf

life:

In airtight closed container: 2 years.

Quality Assurance Information

All Qbiogene products are thoroughly tested to ensure reliable results in the laboratory.

Media

Preparation:

Reagents are tested and chosen for their ability to promote optimum growth of *S. cerevisiae* when combined in YPD Broth formulations. Chosen reagents are combined in the proper proportions according to the formulation listed above and thoroughly blended for a uniform distribution. A sample of the blended formulation is used to prepare agar medium. The combinations are mixed to dissolve components and then autoclaved at 121°C for 15 minutes.

Note: Autoclaving at higher temperatures or for longer periods will result in darkening of the sterile medium, (a darker color does not normally affect growth of cells, only the appearance of the sterile medium).

Quality

Control

Assay:

YPD Broth liquid solution was mixed by swirling to evenly disperse all components and visually inspected after autoclaving for complete dissolution of components. The sterility of the YPD liquid solution was checked.

Cell

Growth

Test:

Duplicate 40ml aliquots of autoclaved YPD Broth were inoculated with a control strain of *S. cerevisiae*. The cultures were aerated at 30° C for 48 hours in a shaking incubator. The pH of the cultures was measured and the cell pellets were centrifuged at 4000 x g, supernatant discarded, and pellets drained and weighed.

Results

of

Quality

Control

Assay

| | Acceptable Ranges for Test Standard Lot | Small Capsules | Powder/Pouch | Large Capsules |
|------------------------------|---|----------------|---------------|----------------|
| pH and Temperature | 5.9-6.5 @ 25°C | N/A | 6.42 @ 37.4°C | N/A |
| Clarity | Clear | N/A | Clear | N/A |
| pH and Temperature (Harvest) | 5.5-6.5 @ 25°C | N/A | 5.67 @ 26.5°C | N/A |
| Pellet Weight | >0.45 g | N/A | 0.95g | N/A |

The YPD Sterile Solution passed the sterility test.

Conclusions:

This lot of YPD Sterile Solution is released for product sales.

01/26/2016 - John Huang, PhD
QBiGene/MP Biomedicals, LLC
Quality Control Manager

MSDS available online at www.mpbio.com