



Technical Data

HiEncap™ YPD Growth Agar (HiEncap™ YEPD Growth Agar) ECG038CCL

HiEncap™ YPD (YEPD) Growth Agar is used for the growth of *Saccharomyces cerevisiae*.

Composition**

Ingredients	Gms / Litre
Peptone	20.000
Yeast extract	10.000
Dextrose	20.000
Agar	15.000
Final pH (at 25°C)	6.5±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Each capsule contains 16.25 gms of medium. Suspend 1 capsule in 250 ml (4 capsules in 1000 ml) distilled or purified water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and dispense as desired.

Principle And Interpretation

YPD (YEPD) Growth Agar is used for the growth of *Saccharomyces cerevisiae*. Yeasts are unicellular eukaryotes and extensively studied model organism in molecular genetics. They are chemoorganotrophs as they utilize organic compounds as a source of energy. YPD (YEPD) Growth Agar is used for the maintenance and propagation of yeasts including *S. cerevisiae* in various molecular microbiology procedures (1, 2). YPD functions as a complete medium for yeast growth and it contains yeast extract, peptone and glucose or dextrose. Yeast extract supplies B-complex vitamins and it contains all the amino acids necessary for growth. Peptone acts as the source of nitrogen, vitamins and minerals. Dextrose serves as the carbon source. This medium supports the vigorous growth of wild type as well as mutant strains of all kinds of budding yeast.

Quality Control

Appearance

Gelatin capsule containing cream to yellow coloured granulated media

Gelling

Firm, comparable with 1.5% Agar gel

Colour and Clarity

Amber clear to slightly opalescent

Quantity

Each capsule contains 16.25 grams of medium sufficient for 250 ml media

pH

6.30-6.70

Cultural Response

ECG038CCL: Cultural characteristics observed after an incubation at 25-30°C for 18-48 hours.

Organism	Inoculum (CFU)	Growth
<i>Saccharomyces cerevisiae</i> ATCC 9763	50-100	good-luxuriant

Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2 - 8°C. Use before expiry date on the label.

Reference

1. Adams, A., D. E. Gottschling, C. A. Kaiser, and T. Stearns. 1997. Methods in yeast genetics: A Cold Spring Harbor Laboratory Course Manual. Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York.
2. Burke, D., Dawson, D., and T. Stearns. 2000. Method in yeast genetics. Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York.

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