OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Yeast Peptone Dextrose Agar (YEPD)

Principle

Yeast peptone dextrose Agar is formulated as per Sherman (1951) for isolation and cultivation of yeasts for the purpose of molecular biology. Media is composed of peptone, yeast extract and dextrose. Peptone serves as a source of nitrogen and essential nutrients. Yeast extracts provide vitamin B complex nutrients and other growth factors. Dextrose is the carbohydrate and energy source and agar acts as gelling agent.

Use: For maintaining and propagating yeasts in molecular biology studies.

Contents*

Ingredients	Gram/Litre
Peptone	20.00
Yeast Extract	10.00
Dextrose	20.00
Agar	15.00
pH at 25˚C	6.5 ±0.2

*** Formula adjusted for optimum performance and parameters**

Directions: Dissolve 65.00 grams in 1000 ml distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121 °C) for 15 min, cool it to 42-45 °C and inoculate test sample aseptically.

Specimens types analyzed

Food samples and dairy products.

Precautions to be taken

These microbial media are intended for the in-vitro use only. All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

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Performance and Evaluation

The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

Quality Control

Appearance	**Light beige colored, free-flowing, homogeneous**
Reaction of 6.50% solution	**6.50 ±0.2 at 25˚C**
pH	**6.30- 6.70**
Color and clarity of ready medium	**Light yellow colored, clear opalescent gel**
Gelling	**Firm comparable with 1.5 % Agar**
Growth Promotion properties	**Best at ≤ 100 CFU at 30-35ºC for 18-72 h**
Indicative properties	**Optimum at ≤ 100 CFU at 30-35ºC for 18-48 h**
Negative control	**Performed using sterile distilled water**

Different Microbial Response: Cultural characteristics observed after an incubation at 30-35°C for 24-48 hours.

Organism	ATCC	Inoculum (CFU)	Growth
Saccharomyces cerevisiae	**9763**	**50-100**	**Luxuriant**
Candida albicans	**10231**	**50-100**	**Luxuriant**

Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label. Note: Sterilize media immediately after reconstitution.

Disposal: To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.

Reference

1. **Sherman F. Getting started with yeast. Methods Enzymol. 2002; 350:3-41.**
2. **Adams, A., Gottschling, D. E., Kaiser, C. A., & Stearns, T. (1998). Methods in Yeast Genetics: A Cold Spring Harbor Laboratory Course Manual, 1997 Edition. New York: Cold Spring Harbor Laboratory Press.**

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