



## PRODUCT SPECIFICATION SHEET

### Glucose Yeast Peptone Agar (DM430)

#### Intended Use

Glucose Yeast Peptone Agar (DM430) is recommended for for isolation of yeast from soil specimen.

#### Product Summary and Explanation

Yeasts are unicellular organisms that reproduce by budding. Their microscopic and morphological features usually appear similar for different genera and are not particularly helpful in their isolation in pure culture. Glucose Yeast Peptone Agar is formulated as described by Subba Rao (1) with a slight modification in agar concentration for isolating yeasts from soil specimens. This is a highly nutritious medium, which may be used not only for isolating yeasts but also for isolating some fastidious microorganisms.

#### Principles of the Procedure

Yeasts grow well on a minimal medium containing only dextrose and salts. The addition of protein and yeast cell extract hydrolysates allows faster growth so that during exponential or log-phase growth, doubling time of 90 minutes is observed (2). Peptic digest of animal tissue provides nitrogenous nutrients especially the amino acids and peptides. The yeast extract provides vitamin B complex. Dextrose is the readily available source of energy and a good carbohydrate source for yeasts.

#### Formula / Liter

Ingredients	Gms / Liter
Peptic digest of animal tissue	10.000
Yeast extract	5.000
Dextrose	20.000
Agar	15.000
Final pH: 7.0 ± 0.2 at 25°C	
Formula may be adjusted and/or supplemented as required to meet performance specifications	

#### Precautions

1. For Laboratory Use only.
2. IRRITANT. Irritating to eyes, respiratory system, and skin.

#### Directions

1. Suspend 50 grams in 1000 ml distilled water.
2. Heat to boiling to dissolve the medium completely.
3. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.
4. Mix well and pour into sterile Petri plates

#### Quality Control Specifications

Dehydrated Appearance	Cream to yellow homogeneous free flowing powder
Prepared Medium	Light to Medium amber coloured clear to slightly opalescent gel forms in petri plates
Reaction of 3.42% Solution	pH : 7.0 ± 0.2 at 25°C
Gel Strength	Firm, comparable with 1.5% Agar gel





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**Expected Cultural Response:** Cultural characteristics observed after incubation at 35-37°C for 18-24 hours.

Sr. No.	Organisms	Results to be achieved	
		Inoculum (CFU)	Growth
1.	Saccharomyces cerevisiae ATCC 9763	50 -100	Luxuriant

The organisms listed are the minimum that should be used for quality control testing.

### Test Procedure

Refer appropriate references for specific test procedures.

### Results

Refer appropriate references and test procedures for interpretation of results.

### Storage

Store the sealed bottle containing the dehydrated medium at 10- 30°C. Once opened and recapped, place container in a low humidity environment at the same storage temperature. Protect from moisture and light.

### Expiration

Refer to the expiration date stamped on the container. The dehydrated medium should be discarded if not free flowing, or if the appearance has changed from the original color. Expiry applies to medium in its intact container when stored as directed.

### Limitations of the Procedure

1. If the medium is not used on same day, it is advisable to drive off dissolved gases by boiling or steaming in the autoclave and cool without agitation.
2. While reheating prepared media to drive off dissolved gases, do not overheat because this may result in decreased growth.
3. Consult appropriate texts for detailed information and recommended procedures.

### Packaging

**Product Name :** Glucose Yeast Peptone Agar

**Product Code :** DM430

**Available Pack sizes :** 500gm

### References

1. Subba Rao N. S., 1977, Soil Microorganisms and Plant Growth, Oxford and IBH Publishing Co., New Delhi.
2. Ausubel, Brent, Kingston, Moore, Seidman, Smith and Struhl, 1994, Current Protocols in Molecular Biology, Current Protocols, Brooklyn, N.Y.





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### Further Information

For further information please contact your local MICROMASTER Representative.

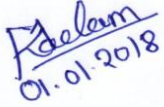




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