

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

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



PRODUCT SPECIFICATION SHEET

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.

Further Information

For further information please contact your local MICROMASTER Representative.



MICROMASTER LABORATORIES PRIVATE LIMITED

DM430PSS,QAD/FR/024,Rev.00

Unit 38/39, Kalpataru Industrial Estate,

Off G.B. Road, Near 'R-Mall', Thane (W) - 400607. M.S. INDIA.

Ph: +91-9320126789/9833630009/9819991103

Email: sales@micromasterlab.com





PRODUCT SPECIFICATION SHEET

Disclaimer :

All Products conform exclusively to the information contained in this and other related Micromaster Publications. Users must ensure that the product(s) is appropriate for their application, prior to use. The information published in this publication is based on research and development work carried out in our laboratory and is to the best of our knowledge true and accurate. Micromaster Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are intended for laboratory, diagnostic, research or further manufacturing use only and not for human or animal or therapeutic use, unless otherwise specified. Statements included herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.

