



PRODUCT SPECIFICATION SHEET

Conn's Agar (DM1059)

Intended Use

Conn's Agar (DM1060) is recommended for cultivation of fungi.

Product Summary and Explanation

Fungi are active decomposers of almost all organic matters in soil. They continue the cycle of nutrients through ecosystems by breaking down dead organic material. They cause spoilage of foodstuffs and some occur as human, animal and plant pathogens. However, some fungi produce substances that can be used as drugs (such as penicillin). Other fungi can be used as food (mushrooms). Many fungi are employed in the industrial production of some enzymes, alcohols, organic acids. Conns Agar is used for the cultivation of fungi.⁽¹⁾

Principles of the Procedure

Conn's Agar contains potato starch and maltose which supports copious fungal growth. Potassium nitrate serves as a nitrogen source. Phosphate buffers the medium. Magnesium sulphate provides essential ions for the growth of fungi.

Formula / Liter

Ingredients	Gms / Liter
Potassium nitrate	2.00
Magnesium sulphate	1.20
Monopotassium phosphate	2.70
Maltose	7.20
Potato starch	10.00
Agar	15.00
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 38.10 grams of the medium in one litre distilled water.
2. Heat to boiling to dissolve the medium completely.
3. Autoclave at 121°C, 15 psi pressure, for 15 minutes / validated cycle.
4. Mix well and pour into sterile Petri plates.

Quality Control Specifications

Dehydrated Appearance	Cream to beige homogeneous free flowing powder
Prepared Medium	Light yellow coloured, opaque gel forms in Petri plates
Reaction of % Solution	Not Applicable
Gel Strength	Firm, comparable with 1.5% Agar gel

Expected Cultural Response: Cultural characteristics observed after an incubation at 25-30°C for 48-72 hours.

Sr. No.	Organisms	Results to be achieved
		Growth
1.	<i>Aspergillus brasiliensis</i> ATCC 16404	luxuriant
2.	<i>Candida albicans</i> ATCC 10231	luxuriant
3.	<i>Saccharomyces cerevisiae</i> ATCC 9763	good-luxuriant

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





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Test Procedure

Refer to appropriate references for standard test procedures.

Results

Refer to appropriate references 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. For identification, organisms must be in pure culture. Morphological, biochemical and/or serological tests should be performed for final identification.
2. Consult appropriate texts for detailed information and recommended procedures.

Packaging

Product Name : Conn's Agar

Product Code : DM1060

Available Pack sizes : 100gm

References

1. Booth C., (Ed.), 1971, Methods in Microbiology by Norris J. R. and Ribbons D. W., Vol. 4, Academic Press, London.

Further Information

For further information please contact your local MICROMASTER Representative.



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