



Conn's Agar

M730

Conn's Agar is used for the cultivation of fungi.

Composition**

Ingredients	Gms / Litre
Potassium nitrate	2.000
Magnesium sulphate	1.200
Monopotassium phosphate	2.700
Maltose	7.200
Potato starch	10.000
Agar	15.000

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 38.10 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and pour into sterile Petri plates.

Principle And Interpretation

Fungi play a part in the cycle of degeneration of almost all organic matters. By breaking down dead organic material, they continue the cycle of nutrients through ecosystems. 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). Conn's Agar is used for the cultivation of fungi (1).

Potato starch and maltose promote luxuriant fungal growth. Potassium nitrate is the source of nitrogen. Phosphate buffers the medium. Magnesium sulphate provides essential ions for the growth of fungi.

Quality Control

Appearance

Cream to beige homogeneous free flowing powder

Gelling

Firm, comparable with 1.5% Agar gel

Colour and Clarity of prepared medium

Light yellow coloured, opaque gel forms in Petri plates

Cultural Response

M730: Cultural characteristics observed after an incubation at 25-30°C for 48-72 hours.

Organism	Growth
* <i>Aspergillus brasiliensis</i> ATCC 16404	luxuriant
<i>Candida albicans</i> ATCC 10231	luxuriant
<i>Saccharomyces cerevisiae</i> ATCC 9763	luxuriant

*Key: Formerly known as *Aspergillus niger*

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

**Disclaimer :**

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