

TECHNICAL DATA SHEET

Potato Carrot Agar

Principle

Potato Carrot Agar is recommended for the cultivation, maintenance, conservation and reproduction of fungi specially *Actinoplanes amanuensis*, *Actinoplanes nirasakiensis*, *Amorphosphorangium auranticolor*, *Streptomyces flavus*, *Pyronema domesticum* and *Thermoactinomyces vulgaris*. The media is composed of carrot infusion form, potato infusion form and agar. Potato and Carrot provides the natural nutritional contents required for the growth of fungi. The media contain necessary nutrients, minerals and vitamins which limit the growth of organisms, and providing only those nutrients essential for the existence rather than their growth. The restriction in growth leads to spore formation as compared to mycelium growth. Agar acts as a solidifying agent.

Use: For reproduction of *Pyronema domesticum*.

Contents*

Ingredients	Gram/Litre
Carrot infusion form	200.00
Potato infusion form	250.00
Agar	15.00
pH (at 25°C)	6.5 ±0.2

*Formula adjusted for optimum performance and parameters

Directions: Dissolve 24.0 grams in 1000 ml purified / distilled water. Heat to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Mix well and pour into sterile Petri plates.

Specimens types analyzed

Agricultural and food samples

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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.

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	Homogeneous light amber free flowing powder
Gelling	Firm, comparable with 1.5% Agar
Color and clarity of set medium	Light amber colored, clear to slightly opalescent gel
Reaction of 2.40 % w/v aqueous solution	pH: 6.5 ±0.2 at 25°C.
pH	6.30– 6.70 at 25°C
Growth Promotion Properties	Best at ≤100 CFU at 32-38°C for 18-72 h
Indicative Properties	Optimum at ≤100 CFU at 32-38°C for 18-48 h

Different Microbial Response

Organism	Vegetative growth	Sporulation	Incubation
<i>Pyronema domesticum</i> (Lab isolate)	Moderate	High	22-25 °C 48-72 h
<i>Aspergillus brasiliensis</i> (ATCC 16404)	Moderate	High	22-25 °C 48-72 h
<i>Saccharomyces cerevisiae</i> (ATCC 9763)	Moderate	High	22-25 °C 48-72 h

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.

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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. American Public Health Association (1978), *Standard Methods for the Examination of Dairy Products*, 14th Ed., Washington D.C.
2. Isenberg, H.D. *Clinical Microbiology Procedures Handbook* 2nd Edition.
3. Jorgensen, J. H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock. D.W. (2015) *Manual of Clinical Microbiology*, 11th Edition. Vol. 1.
4. Onions A. H. S., (1971), In "*Methods in Microbiology*", Edited by Booth C., The Series edited by Norris J. R. and Ribbons D. W., Academic Press, London

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