

TECHNICAL DATA SHEET

Carrot Agar

Principle

Carrot agar is recommended for the cultivation, proliferation and sporulation of plant pathogens specially *Alternaria*, *Cercospora* and *Thielaviopsis* etc. It is also used to studies determining mating type of *Phytophthora ramorum* isolates by mycelia mixing. The media is composed of carrot infusion form and agar. 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. Agar acts as a solidifying agent.

Use: For sporangial production and study of mating techniques of *Phytophthora* spp.

Contents*

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

* Formula adjusted for optimum performance and parameters

Directions: Dissolve 19.0 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. For mating studies the agar can be re-autoclaved for 10 minutes.

Specimens types analyzed

Food and dairy samples.

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.

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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 Cream to orange yellow free flowing powder
Reaction of 1.90 % w/v aqueous solution	6.5 $\pm$ 0.2 at 25°C.
pH	6.60- 7.00
Gelling	Firm, comparable with 1.5% Agar
Color and clarity of ready medium	Light orange to yellow colored, clear to slightly opalescent gel
Growth Promotion properties	Best at $\leq$ 100 CFU at 32-37 °C for 18-48 h
Indicative properties	Optimum at $\leq$ 100 CFU at 32-37 °C for 18-48 h

Different Microbial Response: Cultural characteristics observed after incubation at 33-37°C for 18-48 hours. Inoculum 50-100 CFU.

Organism	Vegetative growth	Sporulation	Incubation
<i>Phytophthora ramorum</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

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

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.

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Reference

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