

Semisolid Nutrient Agar Medium

Cat. No.: S1523288 | Pack size: 250 g | Storage: Protected from light, Room temperature, Desiccated

Product Information

Item	Description
Product Name	Semisolid Nutrient Agar Medium
Cat. No.	S1523288
Pack Size	250 g
Grade & Purity	BioReagent, Suitable for microbiology
Application	Microbial culture
Storage	Protected from light, Room temperature, Desiccated
Shipped In	Normal

Overview

Semisolid Nutrient Agar is a universal basic microbiological medium. Prepared based on nutrient agar with a reduced agar dosage to form a semisolid gel, it balances fluidity and support performance. It serves as a core consumable for routine microbial testing, strain preservation and biochemical assays in microbiology laboratories. This product is a pale yellow powdered dehydrated culture medium with a well-balanced formula, excellent solubility and high clarity of prepared medium. It stably supports the cultivation, motility testing and short-term preservation of various bacteria. It is widely applied to microbial detection in food, pharmaceutical, water quality, animal husbandry, scientific research institutes and other fields, complying with national standards and general industrial testing specifications. It is also used for motility observation, strain storage and H antigen phase variation tests.

Principle and Purpose

Peptone and beef extract powder supply nitrogen sources, essential vitamins, minerals, amino acids and other nutrients required for microbial growth; sodium chloride maintains balanced osmotic pressure; agar acts as the gelling agent.

Formula (g/L)

Ingredient	Dosage
Peptone	10.0 g
Beef Extract Powder	3.0 g
Agar	4.0 g
Sodium Chloride	5.0 g
Final pH (25°C)	7.2±0.2

Preparation Method

Weigh 22.0 g of this product and add into 1 L of purified water. Heat and boil until completely dissolved, dispense into test tubes, autoclave at 121°C for 15 minutes, place upright to solidify, then set aside for use.

Quality Control

Test Item	Standard Index
Appearance	Powder
Color of dehydrated medium	Pale yellow
Color of prepared medium	Pale yellow semisolid
Final pH (25°C)	7.2±0.2

Microbiological Testing

Testing items are detected in accordance with the Pharmacopoeia of the People's Republic of China: *Escherichia coli*, *Bacillus cereus* and *Shigella flexneri*.

Microbiological Quality Control

Quality Control Strains and Strain Numbers	Growth Status / Colony Characteristics
Escherichia coli CMCC(B)44102	Good growth with diffuse spreading growth
Bacillus cereus CMCC(B)63303	Good growth with diffuse spreading growth
Shigella flexneri CMCC(B)51572	Good growth, growing only along the stab line

Testing Conditions

Inoculation mode: Qualitative test.

Incubation conditions: 35°C, 24 hours.

Precautions

1. Wear necessary protective equipment when weighing the medium to prevent physical discomfort.
2. Store the medium in a dry and dark place. Tighten the cap immediately after use to avoid moisture absorption and caking.
3. Discard used medium only after autoclaving at 121°C for 30 minutes.
4. This product shall not be used for clinical testing.

Specifications

Item	Description
Specifications & Purity	BioReagent, Suitable for microbiology
Stability and Storage	Store at room temperature long term (36 months). Store in the dark. Keep dry.
Storage	Protected from light, Room temperature, Desiccated
Shipped In	Normal
Grade	BioReagent, Suitable for microbiology

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Whether you have a technical question, need help with a quotation, or want to inquire about an order, our regional teams are ready to assist. Please contact the office for your region; for general inquiries, the North American office is the corporate primary.

NORTH AMERICAN SALES, SUPPORT & GENERAL INQUIRIES Aladdin Scientific Corporation 14078 Meridian Parkway, Riverside, CA 92518, USA Phone: 1-833-552-7181 Sales: sales@aladdinsci.com Customer Service: custserv@aladdinsci.com	EU SALES, LOGISTICS & LOCALIZED SUPPORT Aladdin Biochem Deutschland GmbH Westring 2, 33142 Büren, Germany Phone: +02951 9383958 Support: support.eu@aladdinsci.com
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Limitations & Regulatory Status

For Research Use Only (RUO). Not for use in human or animal diagnostics, therapeutics, or in vivo applications. Not for food, cosmetic, or household use.

This product is not a CE-marked in vitro diagnostic device under IVDR (EU) 2017/746 and is not an FDA-cleared device under 21 CFR. Use is restricted to verified businesses, institutions, and qualified professional users.

Where any kit component is classified as hazardous under CLP (EC) 1272/2008 or OSHA HCS (29 CFR 1910.1200), the product Safety Data Sheet (SDS) takes precedence over this document for handling, storage, disposal, and emergency measures.

Performance depends on sample type, sample condition, handling, and operator technique. Users are responsible for validating the product for their specific application.

Aladdin product labels, SDS, COA, and approved specifications take precedence over this document. If product formulation, label, SDS, storage conditions, pack size, or quality specifications change, the current approved Aladdin documentation supersedes this manual.