

DPD Medium (without Agar, 77.6g/L)

Cat. No.: D1524304 | Pack size: 250 g | Storage: Protected from light, room temperature

Overview

NLN Medium (Calcium Nitrate Free) excludes calcium nitrate from its formulation while maintaining complete proportions of all other nutritional components. Calcium nitrate can be supplemented as required during preparation to effectively prevent precipitation. Featuring flexible formulation adjustment, it is commonly applied for in vitro tissue culture of oil crops and Brassicaceae plants.

Product Composition :

Composition	(mg/L)
Ammonium nitrate	270
Potassium sulfate	1480
Magnesium sulfate	340
Calcium chloride	569.9
Potassium dihydrogen phosphate	80
Ferrous sulfate	27.79
Disodium EDTA	37.3
Manganese sulfate	5
Sodium molybdate	0.1
Boric acid	2
Zinc sulfate	2
Copper sulfate	0.015
Cobalt chloride	0.01
Potassium iodide	0.25
Nicotinic acid	4

Composition	(mg/L)
Pyridoxine hydrochloride	0.7
Thiamine hydrochloride	4
Myo-inositol	100
Folic acid	0.4
Glycine	1.4
Biotin	0.04
Sucrose	20000
Mannitol	54651
2,4-Dichlorophenoxyacetic acid	1
Kinetin	0.5

Instructions for Use :

1. Dissolution: Accurately weigh 77.6 g of this product, add it into 1 L of distilled or deionized water, and stir thoroughly until completely dissolved to prepare a homogeneous medium solution.
2. pH Adjustment (Optional): If pH adjustment is required, finely tune the pH with dilute NaOH or dilute HCl solution before sterilization. The commonly applicable pH range for plant tissue culture is 5.5 ~ 5.8, subject to specific experimental protocols. Add the solution dropwise while stirring and monitor the pH in real time to avoid over-adjustment.
3. Sterilization: Dispense the prepared medium into suitable culture vessels and perform high-pressure steam sterilization at 116 °C for 30 minutes.
4. Cooling and Application: After sterilization, cool the medium naturally to room temperature in a clean and sterile environment. Use it for plant tissue culture experiments with strict aseptic operation.

Precautions :

1. This product is a full inorganic medium for plant tissue culture. It is recommended to dissolve the powder at room temperature before high-pressure sterilization; heating dissolution is not advised. A small amount of precipitate after sterilization is normal and will not affect the experimental effect.

2. Store the product in a sealed, room temperature and dark environment. The shelf life is 3 years.
3. This product is for research use only. Do not use it for medical treatment, clinical diagnosis, food, cosmetics or other commercial purposes. Do not store it in residential areas.
4. The company shall not be liable for any accidents or losses caused by abnormal or improper use of this product.

Specifications

Attribute	Value
Synonyms	DPD Medium Base DPD Medium for Plant Tissue Culture
Specifications & Purity	BioReagent, Suitable for plant cell culture
Stability And Storage	Store at room temperature long term (36months). Store in the dark.
Storage	Protected from light, Room temperature
Shipped In	Normal
Grade	BioReagent, Suitable for plant cell culture

Contact & Global Offices

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

Limitations & Disclaimer

- 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 professionals for research and development purposes.
- 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, and disposal information.
- Performance depends on sample type, sample condition, handling, and operator technique. Users are responsible for validating the kit 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, this document would be reviewed and reissued.