

White Medium

Cat. No.: W1524329 | Pack size: 250g | Storage: Protected from light, Room temperature

Overview

White Medium adopts an overall low-salt formula with moderate osmotic pressure. It can effectively mitigate physiological stress caused by high-salt surroundings and construct a growth microenvironment more consistent with the natural developmental characteristics of plant roots. Developed a long time ago and verified by extensive long-term scientific research and practical trials, it is a highly recognized classic dedicated basal medium that has been widely used for many years in the field of in vitro plant rooting culture. With a broad spectrum of applicable plant varieties, it fits experiments related to root induction of various salt-sensitive plant materials.

Product Composition:

Component	(mg/L)
Potassium nitrate	80
Citric acid	2
Calcium nitrate	287
Magnesium sulfate	738
Sodium sulfate	53
Potassium chloride	65
Sodium dihydrogen phosphate	19.1
Thiamine hydrochloride (Vitamin B1)	0.1
Pyridoxine hydrochloride (Vitamin B6)	0.1
Nicotinic acid	0.5
Glycine	3
Sucrose	20000
Manganese sulfate	6.6

Component	(mg/L)
Zinc sulfate	2.7
Potassium iodide	0.8
Boric acid	1.5

Instructions for Use

1. Preparation and Dissolution: Accurately weigh 21.26 g of this product, add it to 1 L of distilled or deionized water, and stir thoroughly until the powder dissolves completely 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 Treatment: Dispense the prepared medium into appropriate culture vessels, then autoclave at 116 °C under high-pressure steam for 30 minutes.
4. Cooling and Application: After sterilization, let the medium cool naturally to room temperature in a clean sterile environment, mix gently, and maintain aseptic technique throughout all operations. The medium is then ready for plant tissue culture experiments.

Precautions:

1. This product is a full inorganic salt medium for plant tissue culture. It is recommended to dissolve the powder in room-temperature water prior to autoclaving; heating for dissolution is not advised. Minor precipitation after sterilization is normal and will not interfere with experimental results.
2. Store the product hermetically sealed at room temperature away from light. The shelf life is 3 years.
3. This product is for research laboratory use only. It is strictly prohibited for medical purposes, clinical diagnosis and treatment, food, cosmetics and other related fields. Do not store it in residential areas.
4. Our company shall not be liable for any accidents or losses arising from improper operation or unauthorized use of this product by users.

Specifications

Specification	Details
Synonyms	White's medium White root culture medium
Specifications & Purity	BioReagent, Suitable for plant cell culture
Sensitivity	Light-sensitive
Stability And Storage	Store at room temperature long term (36months). Store in the dark.
Storage	Protected from light, Room temperature
Shipped In	Normal

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.

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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.