

Ms Medium(Without Agar And Sucrose)

Cat: M8521

Specification:250g

Storage: Store at room temperature, and it is valid for 2 years.

Introduction

MS Medium is the most widely used medium currently. It has high concentrations of inorganic salts, which not only ensure the mineral nutrition required for tissue growth but also accelerate the growth of callus tissue. Due to the high ion concentration in the formulation, even slight discrepancies in some components during preparation, storage, and sterilization do not affect the balance between ions. MS solid medium can be used to induce callus formation and for the culture of embryos, stem segments, apical meristems, and anthers. Its liquid medium is notably successful in suspension cultures of plant cells. The quantity and ratio of inorganic nutrients in MS medium are suitable to meet the nutritional and physiological needs of plant cells. Therefore, in most cases, there is no need to add amino acids, casein hydrolysates, yeast extracts, or coconut milk as organic supplements. Compared to other basic media, a distinctive feature of MS medium is its higher content of nitrates, potassium, and ammonium.

Used for the culture of plant organs, anthers, cells, and protoplasts.

Product Composition: (mg/L)

Potassium Nitrate	1900
Ammonium Nitrate	1650
Potassium Phosphate Monobasic	170
Magnesium Sulfate	370
Calcium Chloride	440
Potassium Iodide	0.83
Boric Acid	6.2
Manganese Sulfate	22.3
Zinc Sulfate	8.6
Sodium Molybdate	0.25
Cupric Sulfate	0.025
Cobalt Chloride.6H ₂ O	0.025
Na ₂ EDTA	37.3
Ferrous Sulfate	27.8
Myo-Inositol	100
Glycin	2
Thiamine.HCl	0.1
Pyridoxine.HCl	0.5
Nicotinic Acid	0.5

Instructions for use: (For reference only)

Weigh 4.74 grams of this product and dissolve it in 1000 ml of distilled water. Autoclave at

115°C for 30 minutes and store for future use.

Note: This is a plant tissue culture medium with a fully inorganic salt formula. After sterilization, a small amount of precipitation may occur. The pH value is 5.7-5.9. Adjust the pH as needed before use.

Note

1. The product information is for reference only. If you have any questions, please call 400-968-6088 for consultation.
2. The products are all for scientific research use only. Do not use it for medical, clinical diagnosis or treatment, food and cosmetics, etc. Do not store them in ordinary residential areas.
3. For your safety and health, please wear laboratory clothes, disposable gloves and masks to operate.

Related Products:

<i>M8526</i>	<i>Ms Medium</i>
<i>M8525</i>	<i>1/2 Ms Medium(With Agar and Sucrose)</i>