



Product Specification

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Technical Information

Hoagland No.2 Basal Salt Mixture w/o Nitrogen

Product Code: TS2117

Application: Hoagland No.2 basal salt mixture has been specially formulated for water culture method for growing plants. The mixture contains macroelements, microelements and iron source. This mixture is devoid of nitrogen source.

Composition**	
Ingredients	mg/Litre
Potassium phosphate monobasic	136.03
Potassium chloride	372.70
Calcium chloride.2H ₂ O	554.90
Magnesium sulphate	240.33
Manganese chloride.4H ₂ O	1.81
Boric acid	2.86
Molybdic acid (sodium salt).2H ₂ O	0.025
Copper chloride	0.045
Zinc chloride	0.11
EDTA ferric monosodium salt	33.00
TOTAL gm/litre	1.341

Methodology

Suspend 1.34 grams of basal salt mixture in 600 ml of distilled water and apply constant gentle stirring to the solution till the powder dissolves completely. If desired add heat stable supplements prior to autoclaving. pH is to be adjusted with 1N HCl/NaOH as desired. Make up the final volume to 1000 ml with distilled water. Sterilize the medium by autoclaving at 15 lbs or121°C for 15 minutes. Cool the medium to 45°C before adding the filter sterilized heat labile supplements. Dispense the desired amount of medium aseptically in sterile culture vessels.

Weight after vacuum drying to remove all water

Quality Control

Appearance

White to off-white, homogeneous, free flowing powder.

Plant Tissue Culture



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in distilled water	
H at 25°C ellow, clear solution	
v/v dehydrated basal sa	alt mixture.
: 5 weeks : 60% ± 2% : 22°C ± 2°C n hours : 16:8	
Type of Culture	Results
Shoot culture No structural deformity observed No necrotic tissues, Actively growing shoots, No toxicity to shoots No toxicity to shoots	
Callus culture	No necrotic tissues, Actively growing callus, No toxicity to callus
	H at 25°C ellow, clear solution //v dehydrated basal so : 5 weeks : 60% ± 2% : 22°C ± 2°C n hours : 16:8 Type of Culture Shoot culture

[The medium is prepared as per direction. The growth promoting activity of this plant salt mixture is evaluated using two plant species viz. *Musa* species and *Daucus* species through three passages. Plant growth hormones (e.g. 2,4-D,NAA, Kinetin and 6-BAP) are added in suitable combinations and concentrations.]

Storage and Shelf Life

Hoagland No.2 basal salt mixture powder is extremely hygroscopic and should be protected fromatmospheric moisture. If possible, the entire content of each bottle should be used immediately after opening or else the unused portion should be stored in a desiccator and refrigerated at 2-8°C. Use before the expiry date.

Reference

1. Hoagland D.R. & Arnon D.I., California Agr. Exp. Stat Circular, (1950), 347, 1 - 32

Disclaimer:

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
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