Plant Tissue Culture



Product Specification

cdhfinechemical.com

Technical Information

Bold Basal Solution (10X)

Product Code: PL1031

composition · ·		
Ingredients	mg/100ml	
Sodium nitrate	250.000	
Calcium EDTA	63.600	
Magnesium sulphate heptahydrate	75.000	
Potassium dihydrogen phosphate	233.600	
Sodium chloride	25.000	
EDTA	50.000	
Ferric EDTA monosodium salt	6.500	
Boric acid	11.400	
Zinc sulphate.7H ₂ O	8.800	
Manganese chloride.4H ₂ O	1.400	
Molybdenum trioxide	0.700	
Copper sulphate.5H ₂ O	1.600	
Cobalt nitrate.6H ₂ O	0.500	
Tris free base	12.500	
TOTAL gm/100ml	0.74	

Principle And Interpretation

Bold basal solution (10X) is a filter sterilized liquid. Recommended for the *in vitro* cultivation of fresh water algae. Add 100ml per litre of basal stock solution to the prepared medium to achieve the desired concentration.

Directions

Measure out approximately 600ml of distilled water. While stirring add 100ml of basal stock solution. Rinse the original bottle with a small volume of distilled water to remove traces of the solution. Add desired heat stable supplements prior to autoclaving. Adjust the medium to the desired pH using 1N HCl/1N NaOH. Make up the final volume to 1000ml with distilled water. Sterilize the medium by autoclaving at 15 lbs or 121°C for 15 minutes. Cool the autoclaved medium to 45°C before adding the filter sterilized heat labile supplements. Dispense the desired amount of medium in sterile culture vessels.

Quality Control

	Appearance	: Colourless to yellow, clear solution.
	pH at 25°C	: 4.8 ±1.0 of 100ml basal stock solution.
	Sterility	: No bacterial or fungal growth is observed after 14 days of incubation, as per USP specification.
	Cultural Response :	
	Cultural condition :	
 Incubation period 		od : 8 weeks
	 Temperature 	: 24°C ± 1.0°C
 Photoperiod (D:N) in hours 		N) in hours : 24.0

Plant Tissue Culture



Product Specification

cdhfinechemical.com

Cell Line		Types Of Culture	2	Results
Chlorella		Suspension	Actively growing cells,	
species	culture		No toxicity to cells	
Nostoc species		Suspension culture	Actively growing cells,	
			No toxicity to cells	

[The medium is prepared as per direction. The growth promoting activity of this basal salt solution is evaluated using two algal species viz. *Chlorella* species and *Nostoc* species through three passages.]

Storage and Shelf Life

Store the basal stock solution at 2-8°C away from direct light. If possible, the entire content of each bottle should be used immediately aseptically after opening or else the unused portion should be stored at the given temperature. Avoid contaminating the liquid. Use before the expiry date.

Further Reading

1. Bischoff H.W. & Bold HC (1963) Phycological studies IV. Some soil algae from enchanted rock & related algal species. University of Texas Publ. 6318: 1-95

1. Bold H.C. (1949) The morphology of Chlamydomonas chlamydogama sp. nov. Bull. Torrey Bot. Club. 76, 101-108

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.
- Central Drug House Pvt. Ltd. reserves the right to make changes to specifications and information related to the products at any time.
- Products are not intended for human or animal diagnostic or therapeutic use but for laboratory, research or further manufacturing of diagnostic reagents extra.
- Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.
- Do not use the products if it fails to meet specifications for identity and perf
- ormens parameters.