

TECHNICAL SHEET

B1071	INORGANIC SALT MEDIUM (Modified Raggio's Medium)				
Formula					
Ingredients :		gms/lit.			
Calcium carbonate		3000.0			
Calcium chloride		446.00			
Potassium chloride		165.00			
Monopotassium phosphate		200.00			
Magnesium sulphate		700.00			
Sodium sulphate		200.00			
Potassium iodide		0.75			
Iron (III) chloride		2.50			
Boric acid		1.50			
Sodium molybdate		0.25			
Manganese sulphate		6.64			
Zinc sulphate		2.67			
Copper sulphate		0.07			
Final pH (at 25°C) : Self					
Directions :					
Suspend 4.73 gms in 1000 ml distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121C) for 15 minutes.					
Principle :					
Calcium stimulates nodulation when present as chloride or sulphate. Molybdenum is very much essential for symbiotic nitrogen fixatin and stimulates the nitrogen fixing activity of the nodular tissue. Inorganic Salt Medium is used to moisten the sand (or used as such) into which the suspended roots grow.					
QC Tests – (I)Dehydrated Medium					
Colour :		White			
Appearance :		Homogeneous Free Flowing powder			
(II)Rehydrated medium					
pH (post autoclaving/heating) :		Self			
Colour (post autoclaving/heating) :		Colourless			
Clarity (post autoclaving/heating) :		Clear			
(III)Q.C. Test Microbiological					
Cultural characteristics observed after upto 7 days at 30°C.					
MICROORGANISM (ATCC)		GROWTH			
Rhizobium leguminosarum (10004)		Luxuriant			
Rhizobium phaseoli (14482)		Luxuriant			
Rhizobium trifolii (14480)		Luxuriant			
Precautions :		1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.			
Limitations :		1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.			
Use :		For studying soil microorganisms such as Rhizobium species.			
Storage :		Dehydrated medium- below 30°C Prepared medium– Between 2 to 8°C.			
Packing :		500 gm bottle			
Product profile:		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement Sterilization
B1071		4.73 g/l	105.70 L	Self	Nil 121°C/15 min.

Disclaimer:

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related BIOMARK LABORATORIES publications.

The information contained in this publication is based on our in-house studies and market performance and is to the best of our knowledge true and accurate. BIOMARK LABORATORIES 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 or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. 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.