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B1566 ALEKSANDROW AGAR										
Formula										
Ingredients :	gms	s/lit.								
Magnesium sulphate	0.50									
Calcium carbonate	0.10									
Potassium alumino silicate	icate 2.00									
Dextrose (Glucose)	5.00									
Ferric chloride	0.005									
Calcium phosphate	2.00									
Agar	20.00									
Final pH (at 25°C): 7.2+ 0.2										
Directions:										
Suspend 29.60 grams in 100	Oml of purified	d / distilled	d wate	er. Heat to boiling to dis	solve the	medium				
completely. Sterilize by autoc	laving at 15 lb	os pressur	e (12)	L°C) for 15 minutes. Co	ol to 45-50	0°C. Mix				
well and pour into sterile Petr	i plates.	•		,						
Principle:	•									
Potassium-solubilizing bacter	ia convert ins	oluble pot	assiu	n in the soil into a for	m that pla	nts can				
access A wide range of bacteria namely Pseudomonas. Burkholderia, Acidothiobacillus ferrooxidans.										
Bacillus mucilaginosus, Bacill	us edaphicus,	B.circula	ns an	d Paenibacillus sp. has	been repo	orted to				
release potassium in accessit	le form from	potassium	bearii	ng minerals in soils.Pot	assium-soli	ubilizing				
bacteria have been reporte	ed to exert	beneficial	effe	cts on growth of col	ton, pepp	per and				
cucumber, sorghum, wheatan	d Sudan grass	.Therefore	pota	ssium solubilizing bacte	ria are ext	ensively				
used as biofertilizers.Salts p	resent in the	medium	suppo	rt the growth of potas	sium solu	bililizing				
bacteria by providing the es	sential nutrier	nts. These	urce	of potassium salts is p	otassium	alumino				
silicates. Potassium solubilizi	ng bacteria wil	ll grow on	this I	nedium and forma clea	r zone aro	und the				
colony, formed due to potass	um solubilizat	ion in the	vicinit	ty of the colony.						
Type of specimen : Soil sam	ple.									
Specimen Collection and H	andling:									
For soil samples, follow approp	oriate techniqu	les for san	nple c	ollection as per establis	hed and cu	rrent				
guidelines of soil microbiology	and local star	ndards.								
After use, contaminated mate	rials must be s	sterilized b	by aut	oclaving before discardi	ng.					
QC Tests - (I)Dehydrated Med	dium									
Colour:		Cream to yellow								
Appearance:		Homogeneous Free Flowing powder								
(II)Rehydrated medium										
pH (post autoclaving/heating):	7.2 ± 0.2								
Colour (post autoclaving/h	eating):	Cream to light yellow								
Clarity (post autoclaving/heating):		Opaque gel with white precipitate								
(III)Q.C. Test Microbiologi	cal									
Cultural characteristics observed after an incubation at 35-37°C for 24-48 hours.										
MICROORGANISM (ATCC)		GROWTH	1	POTASSIUM						
				SOLUBILIZATION						
Potassium solubilizing		Good-		Positive reaction, clear						
isolate		Luxurian	t	zone surrounding the						
				colony						
Warning & 1. For In	vitro diagnosti	ic Use.By	profes	sionals only.						
Precautions : 2. Read the label carefully before opening the container. Wear PPE war				PE wares.	Follow					
established good microbiology laboratory practices while handling spec					ng specime	ens and				
cultures and take standard precautions for handling clinical specimens.										
3. For sat	ety guidelines	refer indi	vidual	safety data sheet.						
Refer disclaimer Overleaf										

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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:	Recommended for isolation and detection of Potassium solubilizing bacteria from								
	soil samples.								
Storage:	Dehydrated medium-below 30°C Prepared medium- Between 20 to 30°C.								
Disposal:	Ensure safe disposal by autoclaving/or incineration of used or usable preparation of this product. Follow established laboratory procedures while disposing all infectious material and those coming in contact must be decontaminated and disposed off with existing laboratory technics.								
Packing:	500 gm. bottle								
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization				
B1566	29.60 g/l	16.891 L	7.2 ± 0.2	Nil	121 ⁰ 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 BIOMARKLABORATORIES publications.

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