BIOMARK Laboratories-INDIA www.biomarklabs.com **TECHNICAL SHEET**

B562 TY	ROSINE AGAR (IS	SP MED	IUM NO.7)			
Formula							
Ingredients :		gms	/lit.				
L-Aspargine L-Tyrosine		1.00	-				
Dipotassium phosphate			0.500				
Magnesium sulphate			0.500				
Sodium chloride		0.50	0.500				
Trace salt solution (ml)		1.00	1.000				
Agar		20.0	20.000				
Trace salt solution co	ntains	Mg/	Mg/litre				
Ferrous sulphate,7H ₂ O		1.360					
Copper chloride, 2H ₂ O			0.027				
Cobalt chloride, 6H ₂ O			0.040				
Sodium molybdate			0.025				
Zinc chloride			0.020				
Boric acid		2.85					
Manganese chloride			1.800				
Sodium tartarate		1.77	1.770				
	'.3 <u>+</u> 0.1						
Directions :							
	ing 15ml glycerol.	. Heat t	to boiling	to dissolve t	he medium c	ted medium in 1000 ml ompletely. Sterilize by ile petri plates.	
Principle :	· ·						
Streptomyces species n	nay be differentiate	ed from	Nocardia s	pecies based	on tyrosine and	d asparagine utilization.	
						e present. International	
						on and enumeration of	
						tyrosine utilization. The	
medium contains L-tyre	osine, which is uti	lized by	Streptomy	yces species.	Zone of cleara	ance around the colony	
indicates tyrosine hydro	olysis. Trace eleme	ents prov	ide essent	tial factors for	the growth of	Streptomyces species.	
Inoculate the medium b	by streaking the iso	plate to l	be tested o	onto the agar	surface with a	sterile inoculating loop.	
The medium may need	d to be incubated	for upto	o 3 weeks	to allow pos	itive hydrolyti	c reactions to develop.	
Examine plates at regul	ar intervals for grow	wth and	hydrolysis	•			
QC Tests – (I)Dehydrated Medium							
Colour :			Cream to yellow				
Appearance :			Homogeneous Free Flowing powder				
(II)Rehydrated medium				1	ving powder		
pH (post autoclaving/heating) :			nomogen	1	ving powder		
I [pH (post autoclaving/he)				1	ing powder		
	eating) :		7.3 ± 0.1	1	ing powder		
Colour (post autoclav	eating) : /ing/heating) :		7.3 ± 0.1 Yellow	eous Free Flow			
Colour (post autoclav Clarity (post autoclav	eating) : /ing/heating) : /ing/heating) :		7.3 ± 0.1 Yellow	1			
Colour (post autoclav Clarity (post autoclav (III)Q.C. Test Microbi	eating) : /ing/heating) : /ing/heating) : iological	8-72 hrs	7.3 ± 0.1 Yellow Clear to sl	ightly Opalesc	ent gel	served upto 3 weeks)	
Colour (post autoclav Clarity (post autoclav (III)Q.C. Test Microbi Cultural characteristi	eating) : /ing/heating) : /ing/heating) : iological cs observed after 4		7.3 ± 0.1 Yellow Clear to sl s.at 25-30°	ightly Opalesc	ent gel ydrolysis is obs	served upto 3 weeks)	
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