BIOMARK Laboratories-INDIA

www.biomarklabs.com

TECHNICAL SHEET

B1327	BAIRD PARKER AGAR BASE		
Formula			
Ingredients:	gms/lit.		
Tryptone	10.00		
Meat Extract B*	5.00		
Yeast extract	1.00		
Glycine	12.00		
Sodium pyruvate	10.00		
Lithium chloride	5.00		
Agar	20.00		
*-Equivalent to Be	eef extract		

Final pH (at 25°C): 7.0 ± 0.2

Directions:

Suspend 63.0 grams in 950 ml purified/ distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 50°C and aseptically add 50 ml concentrated Egg Yolk Emulsion (BF003) and 3 ml sterile 3.5% Potassium Tellurite solution (BF008) or 50 ml Egg Yolk Tellurite Emulsion (BF007). Mix well and pour into sterile Petri plates.

Principle:

Tryptone, Meat Extract B and yeast extract are sources of nitrogen, carbon, sulphur and vitamins. Sodium pyruvate not only protects injured cells and helps recovery but also stimulates Staphylococcus aureus growth without destroying selectivity. Lithium chloride and potassium tellurite inhibit most of the contaminating microflora except Staphylococcus aureus. The tellurite additive is toxic to egg yolk-clearing strains other than Staphylococcus aureus and imparts a black colour to the colonies. With the addition of egg yolk, the medium becomes yellow, opaque. Proteolytic bacteria produce a clear zone around colony in egg yolk containing media. A clear zone and grey-black colonies on this medium are diagnostic for coaqulase positive Staphylococci. Upon further incubation, an opaque zone is developed around colonies which can be due to lipolytic activity.

QC Tests – (I)Dehydrated Medium						
Colour :	Cream to yello	Cream to yellow				
Appearance :		Homogeneous Free Flowing powder				
(II)Rehydrated medium		<u> </u>				
pH (post autoclaving/heating) :	7.0 ± 0.2	7.0 ± 0.2				
Colour (post autoclaving/heatin	g): A: Basal med	A: Basal medium: Cream to light amber				
		B: (After addition of egg yolk tellurite emulsion): Cream to				
	yellow	yellow				
Clarity (post autoclaving/heatin	g): A: Clear to sli	A : Clear to slightly opalescent				
	B : Opaque	B : Opaque				
(III)Q.C. Test Microbiological						
Cultural response was observed	after an incubation	n at 35-37°C for 24-48 ho	ours.			
MICROORGANISM (ATCC)	GROWTH	COLOUR OF COLONY	LECITHINASE			
Proteus mirabilis (25933)	Gluxuriant	brown – black	-			
Staphylacoccus aureus (25923)	aphylacoccus aureus (25923) luxuriant		+			
Staphylacoccus aureus (6538)	Staphylacoccus aureus (6538) luxuriant		+			
Staphylococus epidermidis (1222)	8) Poor to good	black	-			
Micrococcus leuteus(10240)	Poor to good	very small, brown black	-			
Bacillus subtilis (6633)	None to poor	dark brown matt	-			
Escherichia coli (25922)	None to poor	large brown black				
Escherichia coli (8739)	None to poor	large brown black	-			
Escherichia coli (NCTC9027)	None to poor	large brown black -				

Refer disclaimer Overleaf

BIOMARK Laboratories-INDIA

www.biomarklabs.com

TECHNICAL SHEET

Precautions :	1. For Laboratory Use.						
	Follow proper, established laboratory procedures in handling and disposing of						
	infectious materials.						
	3. HARMFUL. Irritating to eyes, respiratory system and skin. May cause harm to the						
	unborn child. Avoid contact with skin and eyes. Do not breathe dust. Wear suitable						
	protective clothing. Keep container tightly closed. Target organ(s): Blood, Kidneys,						
	Nerves.						
Limitations :	1. Since the nutritional requirements of organisms vary, some strains may be						
	encountered that fail to grow or grow poorly on this medium. 2. Baird – Parker Agar is selective for coagulase – positive staphylococci but other						
	bacteria may grow. Microscopic examination and biochemical tests will differentiate						
	coagulase – positive staphylococci from other microorganisms.						
	3. Further biochemical test have to be performed for confirmation.						
Use :	For isolation and enumeration of coagulase positive Staphylococci from food and other						
	materials.						
Storage :	Dehydrated medium- below 30°C Prepare fresh plate medium for best results.						
Packing:	500 gm. bottle						
Product profile:	Reconstitution		pH (25°C)	Supplement	Sterilization		
		Preparation (500g)					
B1327	63g/l	7.936L	7.0 <u>+</u> 0.2	concentrated	121°C / 15		
					minutes		
				Emulsion(BF003)			
				and 3 ml sterile			
				3.5% Potassium			
				Tellurite solution			
				(BF008) or 50 ml.			
				Egg Yolk Tellurite			
				Emulsion(BF007)			

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.

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.

Page 02 of 02

Rev: February 2021