

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>BH1273</b>	<b>SABOURAUD DEXTROSE AGAR</b>					
<b>Formula</b>						
<b>Ingredients:</b>			<b>gms/lit.</b>			
Mixture of Peptone & Tryptone (1:1)			10.00			
Dextrose (Glucose)			40.00			
Agar			15.00			
Final pH (at 25°C) : 5.6 ± 0.2						
<b>Directions :</b>						
Suspend 65.0 grams in 1000 ml purified/ distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes or as per validated cycle. Cool to 45-50°C. Mix well and pour into sterile Petri plates.						
<b>Principle :</b>						
Peptone and Tryptone provides carbonaceous, nitrogenous compounds, long chain amino acids, vitamins and other essential growth nutrients. Dextrose (Glucose) provides an energy source. High dextrose concentration and low pH favors fungal growth and inhibits contaminating bacteria from clinical specimens.						
<b>QC Tests - (I) Dehydrated Medium</b>						
Colour :			Cream to light yellow			
Appearance :			Homogeneous Free Flowing powder			
<b>(II) Rehydrated medium</b>						
pH (post autoclaving/heating) :			5.6 ± 0.2			
Colour (post autoclaving/heating) :			Cream to light amber			
Clarity (post autoclaving/heating) :			Clear to slightly opalescent			
<b>(III) Q.C. Test Microbiological</b>						
Cultural characteristics observed after 24 – 48 hrs. at 30-35°C.						
MICROORGANISM (ATCC )		GROWTH	INCUBATION TEMPERATURE		INCUBATION PERIOD	
Aspergillus niger (16404)		Luxuriant	20 -25 °C		<=5 Days	
Candida albicans (10231)		Luxuriant	30 -35 °C		24 -48 hrs	
Candida albicans (2091)		Luxuriant	30 -35 °C		24 -48 hrs	
Trychophyton rubrum (28191)		Good	20 -25 °C		<=5 Days	
Saccharomyces cerevisiae (9763)		Luxuriant	30 -35 °C		24 -48 hrs	
Escherichia coli (25922)		Good*	30 -35 °C		24 -48 hrs	
Escherichia coli (8739)		Good*	30 -35 °C		24 -48 hrs	
Escherichia coli (NCTC9002)		Good*	30 -35 °C		24 -48 hrs	
Lactobacillus casei (334)		Luxuriant	30 -35 °C		24 -48 hrs	
Key * = inhibited on media with lower pH.						
<b>Precautions :</b>		<ol style="list-style-type: none"> <li>1. For Laboratory Use.</li> <li>2. Follow proper, established laboratory procedures in handling and disposing of infectious materials. Wear protective gloves/protective clothing/eye protection/face protection.</li> </ol>				
<b>Limitations :</b>		<ol style="list-style-type: none"> <li>1. For heavily contaminated samples, the media must be supplemented with inhibitory agents for inhibiting bacterial growth with lower pH</li> <li>2. Avoid overheating a medium with an acidic pH because this often causes a soft medium.</li> <li>3. Some pathogenic fungi may produce infective spores which are easily dispersed in air, so examination should be carried out in safety cabinet.</li> <li>4. Further biochemical tests should be carried out for confirmation.</li> </ol>				
<b>Use:</b>		For the cultivation of yeasts, moulds and aciduric bacteria from pharmaceutical products in accordance with the microbial limit testing by harmonized methodology of USP/EP/BP/JP .				
<b>Storage :</b>		Dehydrated medium- below 30°C & Prepared medium – Between 2 to 8°C.				
<b>Packing :</b>		500 gm. bottle				
<b>Product profile:</b>		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>BH1273</b>		65.0 g/l	7.69 L	5.6 ± 0.2	Nil	121°C/15min

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