BH069	**POTATO DEXTROSE AGAR**
Formula	
Ingredients:	**gms/lit.**
Infusion from potatoes	200.00
Dextrose	20.00
Agar	15.00
Final pH (at 25°C) : 5.6 ± 0.2	

Directions :

Suspend 39.0 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. Mix well before dispensing. In specific work, when pH 3.5 is required, acidify the medium with sterile 10% tartaric acid. The amount of acid required for 100 ml. of sterile, cooled medium is approximately 1 ml. Do not heat the medium after addition of the acid.

Principle :

Potato infusion and dextrose promote luxuriant fungal growth. Adjusting the pH of the medium by tartaric acid inhibits the bacterial growth. Heating the medium after acidification should be avoided as it may hydrolyze the agar which can render the agar unable to solidify.

QC Tests – (I)Dehydrated Medium		
	Colour :	Cream to light yellow
	Appearance :	Homogeneous Free Flowing powder
(II)Rehydrated medium		
	pH (post autoclaving/heating) :	5.6 ± 0.2
	Colour (post autoclaving/heating) :	Light amber
	Clarity (post autoclaving/heating) :	Clear to slightly opalescent
(III)Q.C. Test Microbiological		

Cultural characteristics observed after incubation at 20-25 °C for 2-5 days.

MICROORGANISM (ATCC)	INOCULUM (CFU)	GROWTH	OBSERVED LOT VALUE (CFU)	INCUBATION PERIOD
Aspergillus niger (16404)	50 -100	Luxuriant	25 -100	5 -7 Day
Candida albicans (10231)	50 -100	Luxuriant	35 -100	2 -3 Day
Saccharomyces cerevisiae (9763)	50 -100	Luxuriant	35 -100	2 -5 Day
Penicillium communae(10248)	-	fair -good	-	3 -5 Day
Trichophyton ajelloi(28454)	-	fair -good	-	3 -7 Day

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.
	2. Heating Potato Dextrose Agar after acidifying hydrolyzes the agar and may destroy the solidifying properties.
	3. Potato Dextrose Agar is not a differential medium. Perform microscopic examination and biochemical tests to identify isolates to genus and species if necessary.
Use :	For isolation and enumeration of yeasts and molds from pharmaceutical products in accordance to microbial limit testing by harmonized system of (USP/BP/EP/JP).
Storage :	Dehydrated medium- below 30 ° C Prepared mediums– Between 2 to 8°C.
Packing :	500 gm. bottle

Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
BH069	39.0 g/l	12.82 L	5.6 ± 0.2	Nil	121^{0}C/15min

Refer disclaimer overleaf

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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