

TECHNICAL SHEET

B028	WILSON BLAIR AGAR BASE WITH BG					
Formula						
Ingredients :		gms/lit.				
Peptic digest of animal tissue		10.00				
Meat Extract B#		5.00				
Dextrose		5.00				
Disodium phosphate		4.00				
Ferrous sulphate		0.30				
Bismuth sulphite indicator		8.00				
Brilliant green		0.025				
Agar		20.00				
#- Equivalent to Beef extract						
Final pH (at 25°C) : 7.7 ± 0.2						
Directions :						
Suspend 52.32 grams in 1000 ml distilled water. Heat gently with frequent agitation until the medium is dissolved completely. DO NOT AUTOCLAVE. Cool to 50-55°C. Mix well to disperse precipitate and pour thick plates (25 ml medium per plate). Dry the plates before use, avoiding over drying.						
Principle :						
Peptic digest of animal tissue and Meat Extract B# provide nitrogenous, carbonaceous compounds and other growth nutrients. Brilliant green dye inhibits all gram-positive bacteria. Dextrose is the fermentable carbohydrate. Ferrous sulphate is an indicator of H ₂ S production. Bismuth is a heavy metal which is inhibitory to most gram-negative enteric bacilli other than Salmonella. Ferrous sulphate is reduced by Salmonella species in presence of bismuth sulphite and dextrose to form iron sulphide, indicated by black coloured colonies. Agar is the solidifying agent.						
QC Tests - (I) Dehydrated Medium						
Colour :		Greenish yellow				
Appearance :		Homogeneous Free Flowing powder				
(II) Rehydrated medium						
pH (post autoclaving/heating) :		7.7 ± 0.2				
Colour (post autoclaving/heating) :		Light amber to light yellow				
Clarity (post autoclaving/heating) :		Clear to slightly opalescent				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 24 - 48 hrs. at 35 - 37°C.						
MICROORGANISM (ATCC)		GROWTH		COLOUR OF COLONY		
Proteus mirabilis (25933)		Luxuriant		Green		
Salmonella typhi (6539)		Luxuriant		Black with sheen		
Salmonella typhimurium (14028)		Luxuriant		Black with sheen		
Escherichia coli (25922)		Inhibited		--		
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.				
Use :		For isolation and preliminary identification of Salmonella typhi from clinical specimens.				
Storage :		Dehydrated medium- below 30°C Prepared medium – Between 2-8°C				
Packing :		500 gm. bottle				
Product profile:		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B028		52.32 g/l	9.556 L	7.7 ± 0.2	Nil	Do not autoclave. Heat gently to dissolve medium.

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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