

**TECHNICAL SHEET**

<b>B1143</b>	<b>BIFIDOBACTERIUM AGAR</b>				
<b>Formula</b>					
<b>Ingredients:</b>					
	<b>gms/litre</b>				
Special peptone	23.00				
Sodium chloride	5.00				
Glucose	5.00				
Starch, soluble	1.00				
L-Cysteine hydrochloride	0.30				
Agar	15.00				
Final pH (at 25°C): 6.8± 0.2					
<b>Directions:</b>					
Suspend 49.3 grams in 1000 ml distilled water. Mix well and heat to boiling to dissolve the medium completely. Distribute in tubes or flasks as desired. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and pour into sterile Petri plates.					
<b>Principle:</b>					
Special peptone provides essential growth nutrients. Starch acts as protective colloid and shields organisms from harmful substances present in the medium. Glucose is the energy source and sodium chloride maintains isotonic conditions. L-Cysteine hydrochloride helps in creating reduced conditions required for the growth of Bifidobacteria.					
<b>QC Tests - (I) Dehydrated Medium</b>					
	Colour:	Cream to yellow			
	Appearance:	Homogeneous Free Flowing powder			
<b>(II) Rehydrated medium</b>					
	pH (post autoclaving/heating) :	6.8 ± 0.2			
	Colour (post autoclaving/heating):	Amber			
	Clarity (post autoclaving/heating):	clear to slightly opalescent			
<b>(III) Q.C. Test Microbiological</b>					
Cultural characteristics observed after 24-48 hours at 35-37°C.					
	ORGANISM (ATCC)	GROWTH			
	Bifidobacterium bifidum (15696)	good-luxuriant			
	Bifidobacterium breve (15698)	good-luxuriant			
	Bifidobacterium infantis (25962)	good-luxuriant			
<b>Precautions :</b>	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
<b>Limitations :</b>	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
<b>Use:</b>	It is used for the cultivation and maintenance of Bifidobacterium species.				
<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>B1143</b>	49.3g/l	10.14 L	6.8 ± 0.2	None	121°C / 15 minutes

**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 BIOMARK LABORATORIES publications.

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