

TECHNICAL SHEET

B733	MIDDLEBROOK 7H9 BROTH BASE					
Formula						
Ingredients :		gms/lit.				
Ammonium sulphate		0.50				
Disodium phosphate		2.50				
Monopotassium Phosphate		1.00				
Sodium citrate		0.10				
Magnesium sulphate		0.05				
Calcium chloride		0.0005				
Zinc sulphate		0.001				
Copper sulphate		0.001				
Ferric ammonium citrate		0.04				
L-Glutamic acid		0.50				
Pyridoxine		0.001				
Biotin		0.0005				
Final pH (at 25°C) : 6.6+ 0.2						
Directions :						
Suspend 2.35 grams in 450 ml distilled water. Add either 1 ml glycerol or 0.25 g polysorbate 80. Heat if necessary, to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 10 minutes. Cool to 45°C or below and aseptically add contents of 1 vial of Middlebrook ADC Growth Supplement (BF081). Mix well before dispensing.						
Principle :						
This medium contains many inorganic salts which support the growth of Mycobacteria. Sodium citrate becomes citric acid in the medium which retains certain inorganic cations in the solution. This broth base is supplemented for the growth of Mycobacteria. Middlebrook ADC Growth Supplement contains bovine albumin, dextrose and catalase. Some free fatty acids are toxic to Mycobacteria but albumin binds to those fatty acids and prevent toxic action on Mycobacteria. Toxic peroxides present in the medium are destroyed by catalase. Dextrose supplies energy. Glycerol enhances the growth.						
QC Tests – (I) Dehydrated Medium						
	Colour :	Cream to beige				
	Appearance :	Homogeneous Free Flowing powder				
(II) Rehydrated medium						
	pH (post autoclaving/heating) :	6.6 ± 0.2				
	Colour (post autoclaving/heating) :	Light amber				
	Clarity (post autoclaving/heating) :	Clear solution				
(III) Q.C. Test Microbiological						
Cultural characteristics observed with added Middlebrook ADC Growth Supplement (BF081) with added glycerol or Polysorbate 80 after 2-4 weeks at 35-37°C.						
	MICROORGANISM (ATCC)	GROWTH				
	Mycobacterium tuberculosis H37 RV (25618)	Good-Luxuriant				
	Mycobacterium smegmatis (14468)	Good-Luxuriant				
	Mycobacterium fortuitum (6841)	Good-Luxuriant				
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 the Cultivation and sensitivity testing of Mycobacterium tuberculosis.						
Storage :						
Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.						
Packing :						
500 gm. bottle						
Product profile:		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B733		4.7g/l	106.38L	6.6± 0.2	Middlebrook ADC Growth Supplement.(BF081)	121°C / 10minutes

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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