

B735	MIDDLEBROOK 7H9 AGAR 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				
Sodium glutamate		0.50				
Pyridoxine		0.001				
Biotin		0.0005				
Malachite Green		0.001				
Agar		15.00				
Final pH (at 25°C): 6.6 ± 0.2						
Directions:						
Suspend 9.85 grams in 450 ml distilled water. 1 ml glycerol may be added if desired. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C and aseptically add 1 vial of Middlebrook OADC Growth Supplement (BF082). Mix well and distribute as desired.						
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 OADC Growth Supplement contains bovine albumin, dextrose, catalase and sodium chloride. 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 while sodium chloride maintains osmotic equilibrium. Glycerol enhances the growth.						
QC Tests – (I) Dehydrated Medium						
Colour:		Light yellow to light green				
Appearance:		Homogeneous Free Flowing powder				
(II) Rehydrated medium						
pH (post autoclaving/heating):		6.6 ± 0.2				
Colour (post autoclaving/heating):		Light amber with greenish tinge				
Clarity (post autoclaving/heating):		Clear to slightly opalescent gel				
(III) Q.C. Test Microbiological						
Cultural characteristics observed with added Middlebrook OADC Growth Supplement (BF082) 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:		Recommended for isolation, 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
B735		19.7g/l	25.38L	6.6 ± 0.2	Middlebrook OADC Growth Supplement (BF082)	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 BIOMARKLABORATORIES publications.

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