B726	MIDDLEBROOK 7H11 AGAR BASE
Formula	
Ingredients :	**gms/lit.**
Casein enzymichydrolysate	1.00
Ammoniumsulphate	0.50
Monopotassium Phosphate	1.50
Disodium phosphate	1.50
Sodium citrate	0.40
Magnesium sulphate	0.05
L-Glutamic acid	0.50
Ferric ammonium citrate	0.04
Pyridoxine	0.001
Biotin	0.0005
Malachite green	0.001
Agar	15.00
Final pH (at 25°C) : 6.6± 0.2	

Directions :

Suspend 10.25 gms. in 450ml distilled water containing 2.5ml glycerol. Boil to dissolve the medium completely. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes. Cool to 50°C. Aseptically add 1 vial of Middlebrook OADC Growth Supplement. Mix thoroughly before dispensing.

Principle :

The media consists of many inorganic salts which help for growing Mycobacteria. Citric acid formed from sodium citrate helps in retaining inorganic cations in solution. Glycerol supplies carbon and energy. OADC Supplement contains oleic acid, bovine albumin, sodium chloride, dextrose and catalase. Oleic acid and other long chain fatty acids are metabolized by Mycobacteria. Dextrose is an energy source. Catalase neutralizes toxic peroxides, while albumin protects tubercle bacilli from toxic agents. Malachite green partially inhibits other bacteria.

QC Tests – (I)Dehydrated Medium			
	Colour :	Light green	
	Appearance :	Homogeneous Free Flowing powder	
(II)Rehydrated medium			
	pH (post autoclaving/heating) :	6.6 ± 0.2	
	Colour (post autoclaving/heating) :	Very light amber	
	Clarity (post autoclaving/heating) :	Slightly opalescent	
(III) Q.C. Test Microbiological			
	Cultural characteristics observed 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.

Refer disclaimer Overleaf

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. Negative culture results do not rule out active infection by mycobacteria. Some factors that are responsible for unsuccessful cultures are ; • The specimen was not representative of the infectious material, i.e. saliva instead of sputum. • The mycobacteria were destroyed during digestion and decontamination of the specimen. • Gross contamination interfered with the growth of the mycobacteria. • Proper aerobic conditions and increased CO_2 tension were not provided during incubation.				
Use :	For isolation, cultivation and sensitivity testing of Mycobacteria.				
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
B726	20.49g/l	24.40L	6.6 ± 0.2	Middlebrook OADC Growth Supplement Malachite green	121^0C / 15 minutes