

<b>B1016</b>	<b>DUBOS OLEIC AGAR BASE</b>					
<b>Formula</b>						
<b>Ingredients :</b>		<b>gms/lit.</b>				
Caseinenzymichydrolysate		0.50				
L-Asparagine		1.00				
Monopotassium phosphate		1.00				
Disodium phosphate		2.50				
Ferric ammonium citrate		0.05				
Magnesium sulphate		0.01				
Calcium chloride		0.0005				
Zinc sulphate		0.0001				
Copper sulphate		0.0001				
Agar		15.00				
Final pH (at 25°C) : 6.6 ± 0.2						
<b>Directions :</b>						
Suspend 4 gms.in 180 ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Aseptically add 20 ml sterile Oleic Albumin Supplement (BF051) and 5,000 to 10,000 units of Penicillin to sterile, cooled 180 ml medium. Mix thoroughly and distribute in sterile tubes or plates.						
<b>Principle :</b>						
The medium is enriched with casein enzymic hydrolysate and L-asparagine. The wide range of inorganic salts present in the medium aid to the metabolic activities of Mycobacterium. The oleic acid present in the medium provides essential fatty acids for the replication of Mycobacterium. Penicillin inhibits most bacteria. The Dubos Oleic Agar is prepared without glycerol or dextrose to avoid growth of commensales.						
<b>QC Tests - (I)Dehydrated Medium</b>						
Colour :		Light yellow				
Appearance :		Homogeneous Free Flowing powder				
<b>(II)Rehydrated medium</b>						
pH (post autoclaving/heating) :		6.6 ± 0.2				
Colour (post autoclaving/heating) :		Light amber				
Clarity (post autoclaving/heating) :		Slightly opalescent				
<b>(III)Q.C. Test Microbiological</b>						
Cultural characteristics observed after 4 – 6 weeks at 35-37°C.						
MICROORGANISM (ATCC )		GROWTH	COLONIAL MORPHOLOGY			
Mycobacterium tuberculosis H37 RV (25618)		Luxuriant	Flat, rough, dry and usually non-pigmented			
Mycobacterium kansasii (12478)		Luxuriant	Photochromogenic with flat, smooth or somewhat granular surface and slightly undulating margins			
Mycobacterium gordonae (14470)		Luxuriant	Smooth, yellow to orange colonies which are occasionally rough.			
Mycobacterium avium (25291)		Luxuriant	Smooth, thin, non-pigmented colonies			
Mycobacterium smegmatis (14468)		Luxuriant	Rough or smooth, white dome shaped colonies.			
<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>						
For cultivation of Mycobacteria.						
<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>B1016</b>		20.06 g/l	24.925 L	6.6 ± 0.2	sterile Oleic Albumin Supplement (BF051) and 5,000 to 10,000 units of Penicillin	121°C / 15 minutes

**Disclaimer:**

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