B1016	DUBOS OLEIC AGAR BASE
Formula	
Ingredients :	**gms/lit.**
Caseinenzymichydrolysate	0.50
L-Aspargine	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	

Directions :

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.

Principle :

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.

QC Tests – (I)Dehydrated Medium		
	Colour :	Light yellow
	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) :	Slightly opalescent
(III)Q.C. Test Microbiological		
	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.

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 cultivation 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
B1016	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	121^0C / 15 minutes

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