

TECHNICAL SHEET

B321	SPIROLATE BROTH, OMATA					
Formula						
Ingredients :		gms/lit.				
Casein enzymic hydrolysate	15.00					
Dextrose	5.00					
Yeast extract	5.00					
Sodium chloride	2.50					
Sodium thioglycollate	0.50					
L-Cysteine hydrochloride	1.00					
Final pH (at 25°C) : 7.1 ± 0.2						
Directions :						
Suspend 29 gms.in 1000ml. distilled water. Add 0.25 gms. of TEM-4TR-Diacetyl Tartaric Acid Ester of Monoglycerides of Animal Origin (TEM-4TR) if desired. Heat with frequent stirring and boil for 1 minute. Dispense in test tubes filling them half full (about 15-20 ml in 6" inch tubes.) If bigger containers are used, maintain the surface to volume ratio similar to that of tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool and add sterile inactivated 10% v/v sheep/rabbit bovine serum.						
Principle :						
Casein enzymic hydrolysate, yeast extract provide nitrogenous growth factors, minerals and vitamin B complex for the growth of Reiter treponemes. Dextrose supply carbon to the organisms. Sodium chloride maintains osmotic equilibrium of the medium. Thioglycollate minimizes the oxygen tension which is optimum for the growth of treponemes. L-cysteine hydrochloride is a reducing agent and is less toxic to Fusobacteria.						
QC Tests – (I)Dehydrated Medium						
Colour :	Cream to Yellow					
Appearance :	Homogeneous Free Flowing powder					
(II)Rehydrated medium						
pH (post autoclaving/heating) :	7.1 ± 0.2					
Colour (post autoclaving/heating) :	Light straw					
Clarity (post autoclaving/heating) :	Clear to slightly opalescent					
(III)Q.C. Test Microbiological						
Cultural characteristics observed with added 10% inactivated sheep/rabbit bovine serum after an incubation at 35-37°C for minimum 7 days under anaerobic conditions.						
MICROORGANISM (ATCC)	GROWTH					
Treponema pallidum (Reiter strain)	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 mass cultivation of Treponema pallidum,Retire strains for antigen production and other studies.						
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
B321	29g/l	17.241L	7.1 ± 0.2	0.25 gms. of TEM-4TR-Diacetyl Tartaric Acid Ester of Monoglycerides of Animal Origin (TEM-4TR)	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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