

B343	TRYPTOSE BLOOD AGAR BASE W/YEAST EXTRACT		
Formula			
Ingredients:		gms/lit.	
Tryptose		10.00	
Meat Extract B #		3.00	
Yeast Extract		1.00	
Sodium chloride		5.00	
Agar		15.00	
# Equivalent to Beef extract			
Final pH (at 25°C):		7.3 ± 0.2	
Directions:			
Suspend 34 grams in 950 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. For preparing Blood Agar cool the autoclaved medium to 45 - 50°C and aseptically add 5% v/v sterile defibrinated blood. Mix thoroughly, avoiding air bubbles and pour into sterile Petri plates.			
Principle:			
Tryptose is the source of nitrogen, carbon and amino acids in Tryptose Blood Agar Base w/Yeast Extract, Beef extract provides additional nitrogen, Agar is the solidifying agent. Sodium chloride maintains osmotic balance. Yeast extract supplies additional vitamins and cofactors for growth. Supplementation with 5-10% blood provides additional growth factors for fastidious microorganisms, and is used to determine hemolytic patterns of bacteria.			
QC Tests - (I) Dehydrated Medium			
Colour:		Cream to yellow	
Appearance:		Homogeneous Free Flowing powder	
(II) Rehydrated medium			
pH (post autoclaving/heating):		7.3 ± 0.2	
Colour (post autoclaving/heating):		a) Basal medium : Yellow b) With addition of 5% v/v defibrinated sterile blood : Cherry red.	
Clarity (post autoclaving/heating):		a) Clear to slightly opalescent b) Opaque	
(III) Q.C. Test Microbiological			
Cultural characteristics observed after 18 - 48 hrs. at 35-37°C.			
MICROORGANISM (ATCC)	GROWTH W/O BLOOD	GROWTH W BLOOD	Haemolysis
Neisseria meningitidis (13090)	Luxuriant	Luxuriant	None
Staphylococcus aureus (25923)	Luxuriant	Luxuriant	Beta
Staphylococcus epidermidis (12228)	Luxuriant	Luxuriant	Gamma
Streptococcus pneumoniae (6303)	Luxuriant	Luxuriant	Alpha
Streptococcus pyogenes (19615)	Luxuriant	Luxuriant	Beta
Precautions :	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.		

TECHNICAL SHEET

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:	Tryptose Blood Agar Base with Yeast Extract is recommended for the isolation of fastidious organisms and determining the hemolytic reactions.				
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
B343	34g/l	14.705L	7.3 ± 0.2	5% v/v sterile defibrinated blood.	121°C /15 min.

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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