

<b>B091</b>	<b>TRYPTOSE YEAST EXTRACT BROTH (AOAC)</b>					
<b>Formula</b>						
<b>Ingredients:</b>			<b>gms/lit.</b>			
Tryptose			20.00			
Yeast extract			5.00			
Sodium chloride			5.00			
Final pH (at 25°C): 6.9 ± 0.2						
<b>Directions:</b>						
Suspend 30 grams in 1000 ml distilled water. Heat if necessary, to dissolve the medium completely. Dispense in flasks or tubes. Add Salicin (1%) or Raffinose (1%) as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Incubate media for 24 hours at 35°C transfer 1 ml culture to test tube and add 1-2 drops 0.04% phenol red. Yellow colour indicates acid production from salicin. Re-incubate media for additional 48 hours.						
<b>Principle:</b>						
Tryptose and yeast extract provide necessary nutrients to the organisms. Sodium chloride maintains the osmotic equilibrium. Addition of salicin or raffinose helps in distinguishing clostridia species.						
<b>QC Tests – (I) Dehydrated Medium</b>						
Colour:			Cream to yellow			
Appearance:			Homogeneous Free Flowing powder			
<b>(II) Rehydrated medium</b>						
pH (post autoclaving/heating) :			6.9 ± 0.2			
Colour (post autoclaving/heating):			Yellow			
Clarity (post autoclaving/heating):			Clear solution without any precipitate.			
<b>(III) Q.C. Test Microbiological</b>						
Cultural characteristics observed when incubated anaerobically, after an incubation at 35-37°C for 18-72 hours, after addition of phenol red indicator.						
MICROORGANISM (ATCC)		GROWTH	ACID FROM SALICIN		ACID FROM RAFFINOSE	
Clostridium perfringens (12924)		luxuriant	negative reaction, no colour change or red		positive reaction, yellow colour	
Clostridium sporogenes (11437)		luxuriant	negative reaction, no colour change or red		negative reaction, no colour change or red	
<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>		Tryptose Yeast Extract Broth (AOAC) with the addition of salicin or raffinose and an acid base indicator (Phenol Red) is recommended by AOAC for detection of Clostridium perfringens in foods.				
<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>B091</b>	30.0 g/l	16.666 L	6.9 ± 0.2	Salicin (1%) or Raffinose (1%)	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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