

B455	CASEIN HYDROLYSATE YEAST EXTRACT (CAYE) BROTH				
Formula					
Ingredients :		gms/lit.			
Casein acid hydrolysate	30.00				
Yeast extract	4.00				
Dipotassium phosphate	0.50				
Dextrose	2.00				
Final pH (at 25°C) : 7.2 ± 0.2					
Directions :					
Suspend 36.5 gms in 1000 ml. distilled water. Heat if necessary to ensure complete solution. Dispense and sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes.					
Principle :					
The medium contents like casein acid hydrolysate and yeast extract provide the essential nitrogenous nutrients and B-vitamins to the growing Vibrios. Dextrose is the fermentable carbohydrate for the Vibrios. Dipotassium phosphate helps in maintaining buffering conditions in the medium. Inoculate test cultures from TN Agar slants to tubes of CAYE Broth and incubate overnight at 30° ± 2°C which is further used for immunological testing of enterotoxigenicity.					
QC Tests – (I)Dehydrated Medium					
	Colour :	Beige			
	Appearance :	Homogeneous Free Flowing powder			
(II)Rehydrated medium					
	pH (post autoclaving/heating) :	7.2 ± 0.2			
	Colour (post autoclaving/heating) :	Amber			
	Clarity (post autoclaving/heating) :	Clear			
(III)Q.C. Test Microbiological					
	Cultural characteristics observed after 18 –24 hrs. at 30-32°C.				
	MICROORGANISM (ATCC)	GROWTH			
	Vibrio cholerae (15748)	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 :	B455: For cultivation of Vibrio cholerae cultures while testing their enterotoxigenicity.				
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
B455	36.5g/l	13.69L	7.2 ± 0.2	NIL	121°C / 15 minutes