

B453	CASEIN HYDROLYSATE BROTH					
Formula						
Ingredients :		gms/lit.				
Casein acid hydrolysate	20.00					
Ferric citrate	0.025					
Potassium phosphate	2.00					
Magnesium sulphate	0.20					
L-Cystine	0.025					
Sodium acetate	7.00					
L-Tryptophan	0.075					
Calcium pantothenate	0.0005					
Thiamine	0.00004					
Nicotinic acid	0.0012					
Final pH (at 25°C) : 7.3 ± 0.2						
Directions :						
Suspend 29.33 gms. in 1000 ml. distilled water. Mix thoroughly. Heat with frequent agitation and boil for one minute. Dispense as desired. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes.						
Principle :						
Staphylococci to be tested for enterotoxigenicity should be subcultured into the tubes of Casein Hydrolysate broth and incubated in an atmosphere containing 30% Carbon – dioxide for 18-24 hours at 35°C. Growth obtained by this method is then transferred from each tube in three ml amounts to duplicate flasks containing 100ml Casein Hydrolysate Broth and the flasks should be incubated as mentioned above for three days. The broth cultures are then centrifuged and supernatant fluid is sterilized by Seitz filtration. The filtrates are then the toxins are denatured by heat or by neutralization with antiserum. After denaturation, filtrates can be injected in the cats to observe if vomiting is induced. Casein Hydrolysate Broth can be solidified with the addition of agar and the cultures grown are used for tests on other animals and in analysis of antigen –antibody systems by agar diffusion technique.						
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) :		Light to medium amber				
Clarity (post autoclaving/heating) :		Clear to slightly opalescent				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 18 –24 hrs. at 35-37°C.						
MICROORGANISM (ATCC)		GROWTH				
Staphylococcus aureus (25923)		Luxuriant				
Enterococcus faecalis (29212)		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 production of Staphylococcal enterotoxin for use in cat test and in serological 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
B453		29.33g/l	17.04L	7.3 ± 0.2	nil	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.

The information contained in this publication is based on our in-house studies and market performance and is to the best of our knowledge true and accurate. BIOMARK LABORATORIES reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.