

C8845 Casein hydrolysate broth

Casein Hydrolysate Broth is used for the production of staphylococcal enterotoxin for use in the cat test and in serological studies.

Composition:

Ingredients	Grams/Litre
Casein Acid Hydrolysate	20.0
Ferric Citrate	0.025
Potassium Phosphate	2.0
Magnesium Sulfate	0.2
L-Cystine	0.025
Sodium Acetate	7.0
L-Tryptophan	0.075
Calcium Pantothenate	0.0005
Thiamine	0.00004
Nicotinic Acid	0.0012
Final pH 7.3 +/- 0.2 at 25°C	

Store prepared media below 8°C, protected from direct light. Store dehydrated powder in a dry place in tightly-sealed containers at 2-25°C.

Appearance: Yellow colored, homogeneous, free flowing powder.

Color and Clarity: Light to medium amber colored, clear to slightly opalescent solution with a slight precipitate.

Directions:

Suspend 29.33 g in 1000 ml of distilled water. Mix thoroughly. Heat with frequent agitation and boil for one minute. Dispense as desired. Sterilize by autoclaving at 15 lbs. pressure (121°C) for 15 minutes.

Principle and Interpretation:

As described by the American Public Health Association (APHA), staphylococci to be tested for enterotoxingenicity should be subcultured into the tubes of Casein Hydrolysate Broth and incubated in an atmosphere containing 30% CO₂ for 18-24 hours at 35°C.

Cultural characteristics after 18-24 hours at 35-37°C.

Organisms (ATCC)	Growth
<i>Staphylococcus aureus</i> (25923)	+++
<i>Enterococcus faecalis</i> (29212)	+++

References:

1. Casman, 1958, Public Health Reports, 73:599.
2. Standard Methods for the Examination of Dairy Products, (1960). 11th Edition. APHA, New York.
3. American Type Culture Collection, Manassas, Va., USA.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

