



Product Specifications

TODD-HEWITT BROTH

<u>Catalog #</u>	<u>Size</u>
IB49130	30gm
IB49131	500gm
IB49132	2Kg
IB49133	10Kg

Physical Specifications

CAS# N/A
pH (@ 25°C) 7.8 ± 0.2
NOTE: Grams per liter may be adjusted to obtain desired performance.

Molecular Biology Specifications

Enterococcus Faecalis ATCC 29212 Growth
Streptococcus Pneumonia ATCC 6305 Growth
Streptococcus Pyogenes ATCC 19615 Growth

Formula per Liter

- | | | | |
|-----------------------|-------|--------------------------|--------|
| • Beef Heart Infusion | 3.1gm | • Yeast Enriched Peptone | 20.0gm |
| • Dextrose | 2.0gm | • Sodium Chloride | 2.0gm |
| • Disodium Phosphate | 0.4gm | • Sodium Carbonate | 2.5gm |

Preparation

- Mix 30gm of the medium in 1L of purified water until evenly dispersed.
- Heat with repeated stirring to dissolve completely.
- Distribute and autoclave at 121.0°C for 15 minutes.

Recommended Use

IBI's Todd- Hewitt Broth is medium intended for the cultivation and serological typing of Group A hemolytic streptococci. Todd-Hewitt broth is formulated according to Updyke and Nickels modification of the medium originally described by Todd-Hewitt. Studies comparing various commercial broth formulas, dehydrated Todd-Hewitt broth and broth prepared from fresh infusion of beef heart, showed that the dehydrated Todd-Hewitt broth performed equally well to the fresh infusion and superior to the other commercially prepared products. Todd-Hewitt was utilized in et al in fluorescent procedures for identifying Group A streptococci in throat cultures. Todd-Hewitt broth is composed of beef heart infusion, yeast extract, and casein, which are excellent nutritional components. The formation of protease is prevented allowing the production of type specific M protein. Dextrose is a source of carbon and energy, and is fermented by the streptococci. The acid by-products of the fermentation are neutralized by the presence of sodium carbonate and sodium phosphate.

Storage

Store at room temperature. Keep tightly sealed. Protect from moisture and light.

Warning

Irritant. Irritating to the eyes, respiratory system, and skin. Wear suitable protective clothing, gloves, and eye/face protection. See Material Safety Data Sheet for additional information.

FOR RESEARCH AND DEVELOPMENT PURPOSES ONLY

3/12/2009