

## 17156 ITC Broth, Base

### (Irgasan Ticarcillin Chlorate Broth; TTC Broth Base; Triclosan Ticarcillin Chlorate Broth)

For selective enrichment and enumeration of *Yersinia enterocolitica*. It is recommended by ISO Committee under the specification ISO 10273:2003.

#### Composition:

Ingredients	Grams/Litre
Casein enzyme hydrolysate	10.0
Yeast extract	1.0
Magnesium chloride hexahydrate	60.0
Sodium chloride	5.0
Malachite green	0.01
Irgasan (Trichlosan)	0.001
Final pH 6.9 +/- 0.2 at 25°C	

Store below 30°C and the prepared medium at 2-8°C. Use before expiry date on the label.

Appearance: Light yellow to light blue, homogeneous, free flowing powder.  
 Gelling: Firm  
 Color and Clarity: Peacock green, clear solution, which may have slight precipitate.

#### Directions:

Suspend 76 g in 970 ml distilled water. Heat to dissolve the medium completely. Sterilize by autoclaving at 121°C for 15 minutes. Cool to 45-50°C. Aseptically add 1 vial of each Ticarcillin Supplement (Cat. No. 17778) and Potassium Chlorate Supplement (Cat. No. 17777). Mix well before dispensing in sterile tubes.

#### Principle and Interpretation:

ITC Broth is designed as a selective enrichment medium for *Yersinia enterocolitica* from foods. The used formula was approved by APHA (1) and is recommended by the ISO Committee (2). Casein enzyme hydrolysate and yeast provide essential growth nutrients like nitrogenous and carbonaceous compounds and vitamin B-complex. Ticarcillin has bactericide impact especially on gram-negative but also on gram-positive bacteria. Irgasan (Trichlosan) efficiently inhibits gram-positive organisms. Potassium chlorate has disinfecting property.

Cultural characteristics observed with added Ticarcillin supplement (Cat. No. 17778) and potassium chlorate supplement (Cat. No. 17777) and incubated at 25-30°C after 24-48 hours.

Organisms (ATCC)	Growth
<i>Escherichia coli</i> (25922)	-
<i>Staphylococcus aureus</i> (25923)	-
<i>Yersinia enterocolitica</i> (27729)	++



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#### References:

1. Vanderzant C. and Splitterstoesser D. (Eds.), Compendium of Methods of Microbiological Examinations of Foods, 2001, 4<sup>th</sup> ed., APHA, Washington, D.C.
2. International Organization for Standardisation (ISO), Microbiology of food and animal feeding stuffs -- Horizontal method for the detection of presumptive pathogenic *Yersinia enterocolitica*, 2003, Draft ISO/DIS 10273.

#### 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.

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