

43173 Tryptone salt diluent tablets (Maximum recovery diluent tablets)

Used to dilute samples, to increase recovery rates and to prepare stock solutions of powdered milk and concentrates or as base to neutralising disinfectants.

Composition:

Ingredients	Grams/Litre
Tryptone	1.0
NaCl	8.5

Store prepared diluent below 8°C, protected from direct light. Store tablet, in a dry place, in the unopened blister at 2-25°C.

Appearance: Faint beige tablets.

Color and Clarity: Faint yellow colored, clear solution.

Directions:

Dissolve 1 tablet in 500 ml of deionised water. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and dispense as desired.

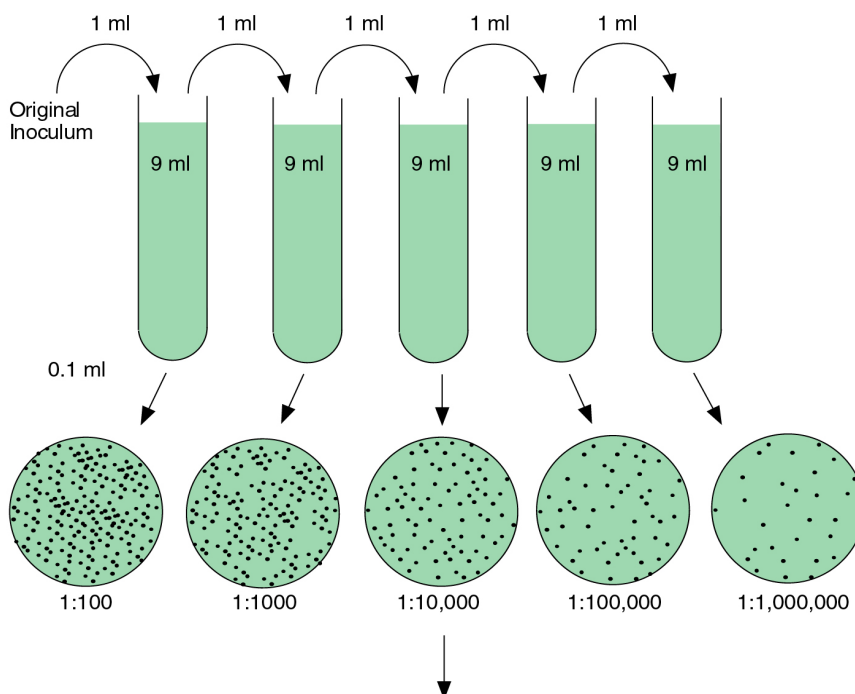
Principle and Interpretation:

Tryptone Salt diluent is recommended by ISO Committee (1) for preparation of specimens, stock suspensions and decimal dilutions used in various microbiological tests of food specimens.

Tryptone provides nitrogenous compounds and other essential growth nutrients. Sodium chloride maintains the osmotic equilibrium.

Serial Dilutions (see image):

The inoculum is diluted out in a series of dilution tubes which are plated out. The number of colonies on the plate are counted and corrected for the dilution to calculate the number of organisms in the original inoculum.



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

Organisms (ATCC)	Growth
<i>Escherichia coli</i> (25922)	+++
<i>Salmonella Typhimurium</i> (14028)	+++
<i>Staphylococcus aureus</i> (25923)	+++

References:

1. ISO 6887-1:1999, Microbiology of food and animal feeding stuffs -- Preparation of test samples, initial suspension and decimal dilutions for microbiological examination -- Part 1: General rules for the preparation of the initial suspension and decimal dilutions

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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