Tryptone

Product information

Product Description

Tryptone is a soluble, spray-dried powder produced through the controlled hydrolysis of proteins—typically derived from animal (casein, meat), vegetable (legumes), or microbial (yeast) sources. Utilizing acid, alkali, or proteolytic enzyme digestion, complex proteins are broken down into more readily assimilable organic nitrogen compounds.

As a foundational component in microbiological culture media, Tryptone serves as a multifaceted nutrient source. It provides essential carbon (C) and nitrogen (N) sources, as well as critical growth factors, vitamins, and trace carbohydrates necessary for the cultivation of a wide range of microorganisms.

Storage and Handling

Storage: Maintain in a cool, dry environment to ensure stability.

Shelf Life: Valid for 36 months from the date of manufacture when stored under recommended conditions.

Shipping: Suitable for transport at ambient room temperature.

Safety Information:

Always wear appropriate lab coat, gloves and googles. Please consult the Material Safety Data Sheet (MSDS) for more information.

This product is intended for research only.

Application Protocol: LB Medium Preparation

Tryptone is a fundamental component of Luria-Bertani (LB) Medium. To prepare 1 liter of standard LB medium, adhere to the following formulation:

Component	Quantity
Tryptone	10 g
Yeast extract	5 g
NaCl	10 g
Deionized water	Up to 1L

1. Combine the dry components with 1 L of distilled or deionized water.

2. Agitate the solution until all reagents are completely dissolved.

3. Sterilize via autoclaving at 121°C for 30 minutes.

Product Description	Catalog No.
Tryptone (500 g)	TRYP-500
Tryptone (1 Kg)	TRYP-1KG
Tryptone (5 Kg)	TRYP-5KG

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