Data Sheet (Cat.No.TXB-00540)

TargetMol

Tryptone

Chemical Properties

CAS No. : 73049-73-7

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Tryptone is a mixture of peptides produced by the hydrolysis of proteins (typically casein) using bovine trypsin; it contains a variety of short peptides and amino acids. Tryptone is a common component of microbial culture media, providing a nitrogen source and growth factors for bacteria and yeast, and is widely used in LB medium, liquid culture, and protein expression research.
Targets(IC50)	Others
In vitro	Tryptone (10 g/L; 10 min; 37°C) enhances the capture efficiency of T4 phage-conjugated magnetic particles against Escherichia coli in a temperature-dependent manner. [1] In Pseudomonas biofilm formation experiments, tryptone (10 g/L; 24 h) promoted the formation of mature biofilms in both the wild-type and Fis-overexpressing strains of Pseudomonas putida, resulting in a 1.3- to 2.9-fold increase in biofilm mass compared to the M9 medium group without tryptone. [2]

Solubility Information

Solubility	H2O: 80 mg/mL,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Reference

Liana AE, et al. T4 bacteriophage conjugated magnetic particles for E. coli capturing: Influence of bacteriophage loading, temperature and tryptone. Colloids Surf B Biointerfaces. 2017 Mar 1;151:47-57.

Puhm M, et al. Tryptone in Growth Media Enhances Pseudomonas putida Biofilm. Microorganisms. 2022 Mar 14;10 (3):618.

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