Tinzyme Co., Limited

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Lithium Chloride Precipitation Solution

Product Number: LC12501

Shipping and Storage

2-8℃.

Components

Component	LC12501
Lithium Chloride Precipitation Solution	100ml

Description

This Lithium Chloride Precision Solution (referred to as LiCl) is a transparent liquid that can be used as needed without the need for additional reagents. LiCl is a strong dehydrating agent that can reduce the solubility of RNA.Therefore, RNA in vitro transcription will form precipitates in high concentration LiCl solution, which can be separated by centrifugation. This product can remove most of the proteins and free nucleotides in RNA transcription samples.

Features

1. High recovery rate: the recovery rate can reach over 90%;
2. No obvious fragment selectivity;
3. Easy to operate: The entire operation process can be completed in 1 hour.

Quality control

This product has been tested and does not contain residues of endonucleases, exonucleases, or RNA enzymes

Note

1. There may be some precipitation before use of this product, which can be resuspended at 37 ℃. Precipitation does not affect the RNA precipitation effect of this product.
2. The precipitation effect is best when the RNA concentration is greater than 400ng/μl.
3. When the RNA concentration is less than 300nt or 100ng/μl, effective precipitation cannot be obtained through this method.

Protocol

1. Add Lithium Chloride Precision Solution to the RNA sample to be purified (the final concentration of Lithium Chloride Precision Solution is greater than 2.5M);
2. Mix the sample well and let it stand at -20 ℃ for 30 minutes;
3. Centrifuge at 12000 rpm for 15 minutes and remove the supernatant;
4. After rinsing with 70% ice ethanol, centrifuge at 12000 rpm for 2 minutes and remove the supernatant (70% ice ethanol needs to be prepared and used on site);
5. Repeat step 4;
6. Open the lid and let it stand at room temperature for 5 minutes to allow the ethanol to fully evaporate (to avoid RNA degradation, it is recommended to ventilate this step in the ultra clean bench).
7. Dissolve with an appropriate amount of RNase Free Water and store at -20 ℃.

Related products

Product number	Product name
GMP-T701	T7 RNA Polymerase, GMP Grade

E131	T7 High Yield RNA Transcription kit
GMP-M062	Vaccinia Capping Enzyme, GMP Grade
GMP-RI01	RNase Inhibitor, GMP Grade
GMP-M072	mRNA Cap 2'O Methyltransferase, GMP Grade
GMP-DI05	DNase I Recombinant GMP grade
GMP-M012	Poly(A) Polymerase, GMP Grade
GMP-M036	Pyrophosphatase, Inorganic (yeast), GMP Grade