

Наборы для синтеза РНК, для транскрипции и защиты электродов

Технические характеристики

Виды товаров: высокоэффективные наборы для транскрипции, неорганическая пирофосфатаза, растворы для защиты электродов, наборы растворов dNTPs.

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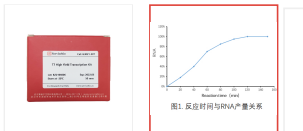
T7 High Yield Transcription Kit



Cat.No. : G3021-50T

Brand : Servicebio

Spec.: 50 T



Product Introduction

Product Information

Product Name	Cat.No.	Spec.
T7 High Yield Transcription Kit	G3021-50T	50 T

Product Description/Introduction

The T7 High Yield Transcription Kit is a complete system for the efficient synthesis of RNA for blot in situ hybridization probes, ribonuclease protection assays, post-transcriptional modifications including RNA splicing and polyadenylation, and for in vitro translation. T7 RNA polymerase is highly specific for its own promoter and will transcribe large amounts of RNA from DNA sequences (for example, plasmids, polymerase chain reaction (PCR) fragments, or Synthetic DNA) downstream of its promoter.

In the reaction system, 1 µg of template input can produce more than 100 µg of RNA, which is suitable for the preparation of various lengths of RNA.

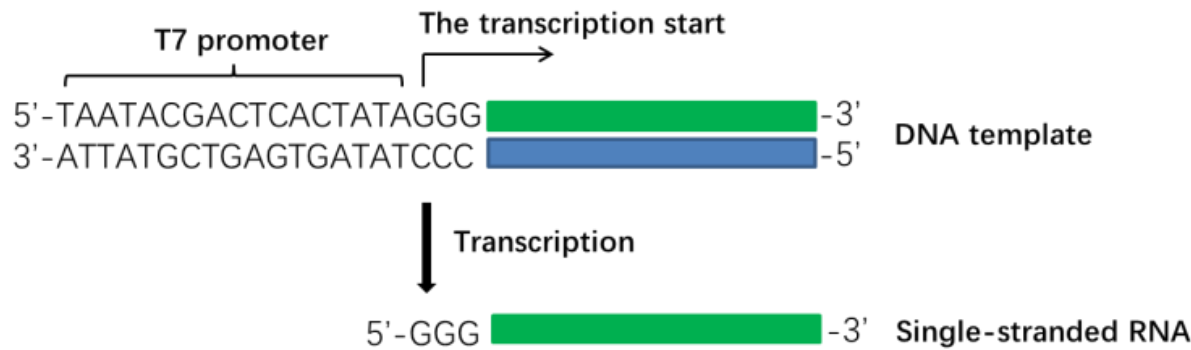


Figure 1. Schematic diagram of T7 RNA polymerase transcription

Storage and Shipping Conditions

Ship with wet ice; Store at -20°C, valid for 12 months.

Product Contents

Component Number	Component	G3021-50T
G3021-1	T7 RNA Transcription Enzyme Mix	200 µL
G3021-2	5×T7 Transcription Reaction Buffer	250 µL
G3021-3	25 mM NTP Mix	100 µL
G3021-4	DNase I	50 µL
G3021-5	Nuclease-Free Water	1 mL
G3021-6	Control Template (0.5 µg/µL)	10 µL
Manual		One copy

Assay Protocol/Procedures

1. Preparation for template :

- Plasmid containing the T7 promoter : to obtain RNA of a specific length, the plasmid should be fully linearized and purified as template. Plasmid linealization with a restriction enzyme should produce a 5' overhang or a blunt end (avoid 3' protruding end). The recommended amount of template per reaction is ~1 µg;
- The PCR product or the synthetic DNA: the 5' end of the primer of the non-coding strand fused with the sequence from T7 promoter (5' -TAATACGACTCACTATAGGG-3') perform PCR amplification.. The PCR products can be directly used as transcription templates without purification, but RNA yield will be increase after purification. The recommended amount of template per reaction is ~0.5 µg.

2. In vitro translation reaction :

- Add the following component into a sterile, nuclease-free tube on ice in the indicated order
- Mix gently and centrifuge briefly.
- Incubate at 37°C for 2 h. (Adjust the reaction time depending on the target length and the desired RNA yield. For example , RNA less than 300 nt, it is recommended to incubate for 4 h or longer).

Component	Amount	Final conc.
Template	0.5-1 µg	25-50 µg/mL
5×T7 Transcription Reaction Buffer	4 µL	1×
25 mM NTP Mix	2 µL	2.5 mM
T7 RNA Transcription Enzyme Mix	4 µL	
Nuclease-Free Water	Up to 20 µL	--

3. DNase I Treatment

After the reaction, add 1 µL of DNase I, mix briefly and incubate at 37°C for 15 minutes.

4. Quantification of transcription products

a. Gel electrophoresis analysis

1% denaturing formaldehyde agarose gel is recommended.

b. UV absorption method

The concentration of RNA products determined by UV absorption equipments after purification (free nucleotides will affect the accuracy of quantification).

Note

- Please wear appropriate gloves and masks and use disposable RNase-free consumables to prevent RNase contamination.
- To prepare labeled RNA, please replace the NTP Mix in the kit with the appropriate reagent.
- The transcription length of the control template in the kit was 500 nt.
- For your safety and health, please wear safety glasses, gloves, or protective clothing.



PH Electrode Protection Solution

Protect the electrode to extend its service life.

Cat.No. : G3050-100ML

Brand : Servicebio

Spec.: 100 mL

Product Introduction

Product Information

Product Name	Cat. No.	Spec.
PH Electrode Protection Solution	G3050-100ML	100 mL

Product Description

The pH meter electrode is frequently exposed to acid and alkaline solutions, easy to be aged , resulting in inaccurate pH measurement. Storing the pH electrode in the electrode protection solution can restore proper electrode performance and prolong electrode life. The main component of the pH electrode protection solution is 3M KCl.

Storage and Shipping Conditions

Ship and store at room temperature, valid for 36 months.

Assay Protocol

After use, the pH electrode shall be thoroughly cleaned with pure or ultrapure water, and then soaked in the pH electrode protection solution. Before measuring samples, rinse the electrode thoroughly with pure or ultrapure water.

Note

For your health and safety, please wear lab clothes and gloves during operation.

Inorganic Pyrophosphatase (Thermostable)



Cat.No. : G3421-200U

Brand : Servicebio

Spec.: 200 U

Product Introduction

Product Information

Product Name	Cat. No.	Spec.
Inorganic Pyrophosphatase (Thermostable)	G3421-200U	200 U

Product Introduction

Product Description:	Inorganic pyrophosphatase (PPase) catalyzes the hydrolysis of inorganic pyrophosphate to form orthophosphate: $P_2O_7^{4-} + H_2O + PPase \rightarrow 2HPO_4^{2-}$. The enzyme requires a divalent metal cation, with Mg^{2+} conferring the highest activity. This product exerts its effect at 16-37°C, showing the strongest effect at 25°C. The Inactivation temperature is above 65°C.
Applications:	<ul style="list-style-type: none">I High yield RNA synthesis by in vitro transcription.I DNA polymerization reactions: preventing accumulation of pyrophosphate.I Removal of contaminant PPI in reagents used for SNP genotyping by methods based on the detection of pyrophosphate.
Source:	An E. coli strain carrying a plasmid encoding a pyrophosphatase from the extreme thermophile Thermococcus litoralis.
Purity:	≥95% by SDS-PAGE
Endogenous nucleic acid	< 1 pg/μL by qPCR
Concentration:	2 U/μL
Definition of Activity Unit:	One unit is the amount of enzyme that will generate 1 μmol of phosphate per minute from inorganic pyrophosphate under standard reaction conditions (a 10 minute reaction at 75°C in 100 mM Tris-HCl [pH 8.0], 2 mM $MgCl_2$, 2 mM PPI, reaction volume of 0.5 ml).
Storage (Dilution) Buffer:	20 mM Tris-HCl, 100 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, pH 8.0.
Inactivation or inhibition	<ul style="list-style-type: none">I Inhibitors: imidodiphosphate, α ω glycol diphosphates, methanedial diphosphate, 1,2-ethanedial diphosphate.I Inactivation by heating is not complete, reliably removed by spin column or phenol/chloroform extraction.
Storage Conditions:	Store at -20°C up to 12 months.

Product Contents

Component Number	Component	G3421-200U
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G3421-1	Inorganic Pyrophosphatase (Thermostable)	100 µL
Manual		One copy

Assay Protocol / Procedures

The Inorganic Pyrophosphatase (Thermostable) can be directly added into the reaction system.

Working concentration of the enzyme range from 0.05 to 1 U/mL.

Note

I Enzymes should be placed on ice when used, and stored at -20°C immediately after use. It is recommended to store separately.

1. For your safety and health, please wear safety glasses, gloves, or protective clothing.

Inorganic Pyrophosphatase (E.coli)



Cat.No. : G3420-100U

Brand : Servicebio

Spec.: 100 U

Product Introduction

Product Information

Product Name	Cat. No.	Spec.
Inorganic Pyrophosphatase (E.coli)	G3420-100U	100 U

Product Introduction

Product Description:	Inorganic pyrophosphatase (PPase) catalyzes the hydrolysis of inorganic pyrophosphate to form orthophosphate: $\text{P}_2\text{O}_7^{4-} + \text{H}_2\text{O} + \text{PPase} \rightarrow 2\text{HPO}_4^{2-}$. The enzyme requires a divalent metal cation, with Mg^{2+} conferring the highest activity. This product exerts its effect at 16-37°C, showing the strongest effect at 25°C. The Inactivation temperature is above 65°C.
Applications:	<ul style="list-style-type: none">I High yield RNA synthesis by in vitro transcription.I DNA polymerization reactions: preventing accumulation of pyrophosphate.I Removal of contaminant PPI in reagents used for SNP genotyping by methods based on the detection of pyrophosphate.
Source:	PPase is prepared from an E. coli strain containing a clone of the E. coli inorganic pyrophosphatase gene.
Purity:	≥95% by SDS-PAGE
Endogenous nucleic acid	< 1 pg/μL by qPCR
Concentration:	1 U/μL
Definition of Activity Unit:	One unit is the amount of enzyme that will generate 1 μmol of phosphate per minute from inorganic pyrophosphate under standard reaction conditions (a 10 minute reaction at 25°C in 100 mM Tris-HCl [pH 8.0], 2 mM MgCl_2 , 2 mM PPI, reaction volume of 0.5 ml).
Storage (Dilution) Buffer:	20 mM Tris-HCl, 100 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, pH 8.0.
Inactivation or inhibition	<ul style="list-style-type: none">I Inhibitors: imidodiphosphate, α ω glycol disphosphates, methanedial diphosphate, 1,2-ethanedial diphosphate.I Inactivation by heating is not complete, reliably removed by spin column or phenol/chloroform extraction.
Storage Conditions:	Store at -20°C up to 12 months.

Product Contents

Component Number	Component	G3421-100U
G3420-1	Inorganic Pyrophosphatase (E.coli)	100 μL

Assay Protocol / Procedures

The Inorganic Pyrophosphatase (E.coli) can be directly added into the reaction system.

Working concentration of the enzyme range from 0.05 to 1 U/mL.

Note

Enzymes should be placed on ice when used, and stored at -20°C immediately after use. It is recommended to store separately.

1. For your safety and health, please wear safety glasses, gloves, or protective clothing.



Servicebio® dNTPs Solution Kit (dATP, dGTP, dCTP, dTTP, 100 mM each)

Cat. #: G3059

Product Information

Product Name	Cat. No.	Spec.
dNTPs Solution Kit (dATP, dGTP, dCTP, dTTP, 100 mM each)	G3059-01	4×400 µL

Product Description/Introduction

The dNTPs Solution Kit is a set of 4 solutions of high purity dATP, dGTP, dCTP, dTTP, etc. with a concentration of 100 mM, which is imported and dispensed as a high purity reagent, with a purity of greater than 99% by HPLC, and with no contamination by DNase and RNase. Commonly used in PCR, RT-PCR, Real-Time PCR, DNA sequencing, DNA labeling, cDNA synthesis, primer extension reaction and other routine molecular biology experiments.

Storage and Shipping Conditions

Ship with wet ice; Store at -20°C, avoid repeated freezing and thawing, valid for 24 months.

Note

1. It can be dissolved at room temperature and mixed upside down. After dissolution, it should be stored in an ice box or on an ice bath, and should be stored at -20°C immediately after use.
2. It can be stored at -20°C for two years. If it needs to be stored for a long time, it is recommended to be thawed and divided into packages, and store it at -80°C to avoid freeze-thaw cycles.
3. The usage can be increased or reduced according to the experimental needs.
4. For your safety and health, please wear safety glasses, gloves, or protective clothing.

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