

Наборы для молекулярной биологии

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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Molecular Biology Kits: Streamlining Laboratory Workflows

These kits offer numerous advantages, including:

Enhanced Efficiency: Molecular biology kits streamline workflows by providing all the necessary components for a particular technique in a single package. This eliminates the need for researchers to source and measure individual reagents, saving valuable time and reducing the risk of errors.

Standardized Results: Optimized protocols and pre-quantified reagents ensure consistent and reproducible results across experiments. This is particularly important for research demanding high levels of accuracy and data integrity.

Safety Considerations: Many molecular biology kits utilize safer alternatives to hazardous chemicals, promoting a safer laboratory environment.



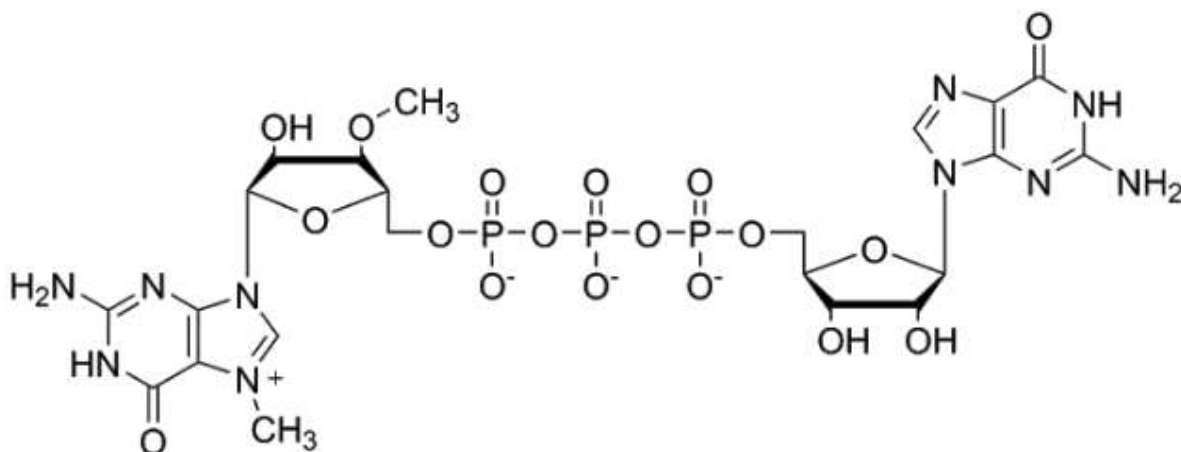
Capped RNA Synthesis Kit (with tailing)

Catalog No.: ON-269

Introduction

Only mRNA containing 7-methyl guanosine (M7G) cap structure at the 5' end and a Poly(A) tail at the 3' end can be effectively expressed in eukaryotic cells. Capped RNA synthesis kit enables the production of a large number of RNA containing a 5' Cap structure in vitro, which is capped to the 5' end of RNA by the use of anti-reverse Cap Analog (ARCA).

ARCA structure:



Using the control template supplied with the kit, each reaction will yield approximately 60-70µg of RNA.

Poly(A) tailing of RNA

Tailings of mRNA can be obtained by Poly(A) Polymerase. Using this kit, approximately 100 base poly(A) tails can be added to RNA transcripts.

Materials provided with the kit:

The kit contains sufficient reagents for 10 reaction of 20µL each. Each standard reaction yield up to 70µg of capped RNA, 2300nt length, from 1µg control template.

Component	10 rxn kits	Storage
5X Reaction Buffer*	40µL	-20°C
2X ARCA/NTP mix	100µL	-20°C
Enzyme Mix	10µL	-20°C
Control Template (0.5µg/µL)	10µL	-20°C
DNase I (RNase-free, 1 U/µL)	10µL	-20°C
10X poly(A)polymerase Reaction buffer	300µL	-20°C
ATP solution	30µL	-20°C
Poly(A) polymerase	100µL	-20°C
Nuclease-free H₂O	1000µL	-20°C
Ammonium Acetate Stop Solution	500µL	-20°C
Lithium Chloride Precipitation Solution	500µL	-20°C
Gel Loading Buffer	100µL	-20°C

* Salts, buffer, dithiothreitol, and other ingredients; 5X Reaction Buffer store at -70°C may result in the formation of a white precipitate. If this happens, heat the tube to 37°C for 5 minutes and mix thoroughly to resuspend the precipitate.



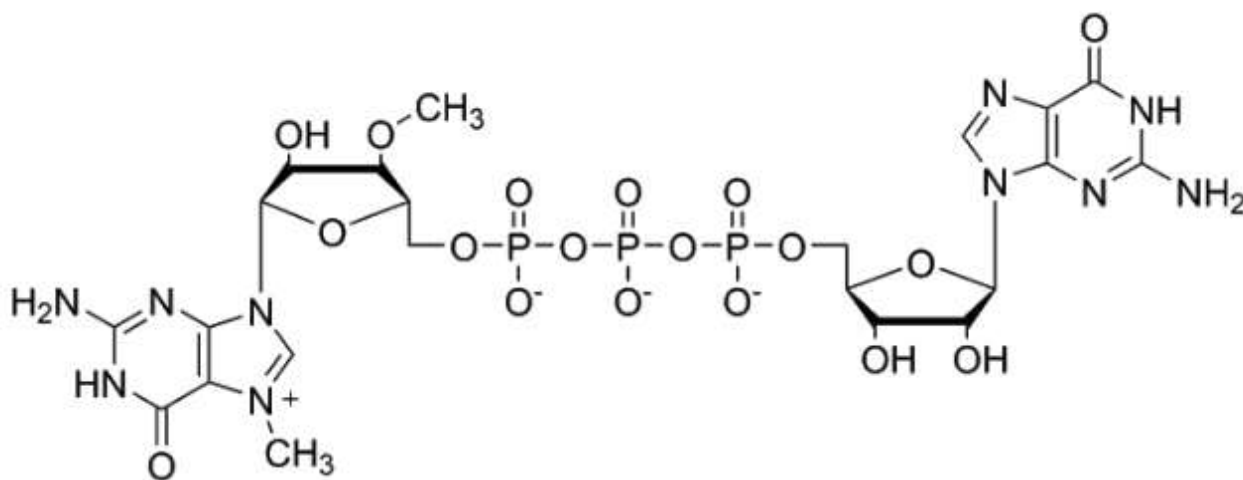
Capped RNA Synthesis Kit

Catalog No.: ON-257

Introduction

Only mRNA containing 7-methyl guanosine (M7G) cap structure at the 5' end and a Poly(A) tail at the 3' end can be effectively expressed in eukaryotic cells. Capped RNA synthesis kit enables the production of a large number of RNA containing a 5' Cap structure in vitro, which is capped to the 5' end of RNA by the use of anti-reverse Cap Analog (ARCA).

ARCA structure :



Using the control template supplied with the kit, each reaction will yield approximately 60-70µg of RNA.

Materials provided with the kit:

The kit contains sufficient reagents for 10 reaction of 20µL each. Each standard reaction yield up to 70µg of capped RNA, 2300nt length, from 1µg control template.

Component	10 rxn kits	Storage
5X Reaction Buffer*	40μL	-20°C
2X ARCA/NTP mix	100μL	-20°C
Enzyme Mix	10μL	-20°C
Control Template (0.5μg/μL)	10μL	-20°C
DNase I (RNase-free, 1 U/μL)	10μL	-20°C
Nuclease-free H ₂ O	1000μL	-20°C
Ammonium Acetate Stop Solution	500μL	-20°C
Lithium Chloride Precipitation Solution	500μL	-20°C
Gel Loading Buffer	100μL	-20°C

* Salts, buffer, dithiothreitol, and other ingredients; 5X Reaction Buffer store at -70°C may result in the formation of a white precipitate. If this happens, heat the tube to 37°C for 5 minutes and mix thoroughly to resuspend the precipitate.



High Yield T7 RNA Synthesis Kit

Catalog No.: ON-040

Product description: The High Yield T7 RNA Synthesis Kit is designed to produce 25-fold more full-length RNA transcript per reaction than conventional in vitro transcription reactions. The yield is up to 210μg RNA per reaction.

Materials provided with the kit:

The kit contains sufficient reagents for 50 reaction of 20μL each.

Component	50 rxn kits	Storage
5X Reaction Buffer*	200μL	-20°C
100mM ATP Solution	100μL	-20°C
100mM GTP Solution	100μL	-20°C
100mM UTP Solution	100μL	-20°C
100mM CTP Solution	100μL	-20°C
Enzyme Mix	75μL	-20°C
Control Template (0.5μg/μL)	10μL	-20°C
DNase I (RNase-free, 1U/μL)	50μL	-20°C
Nuclease-free H ₂ O	1mL	-20°C
Ammonium Acetate Stop Solution	1.5mL	-20°C
Lithium Chloride Precipitation Solution	1.5mL	-20°C
Gel Loading Buffer	0.5mL	-20°C

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