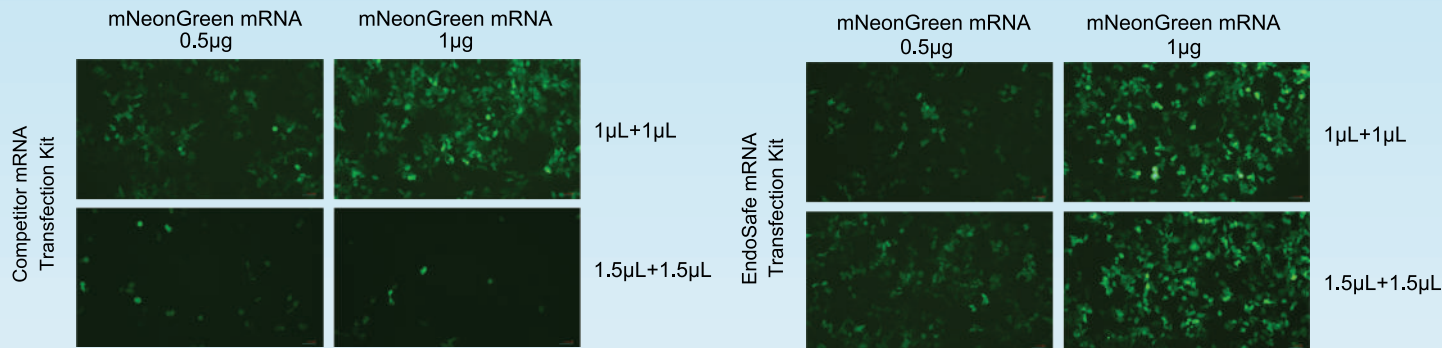


Endosafe mRNA Transfection Kit

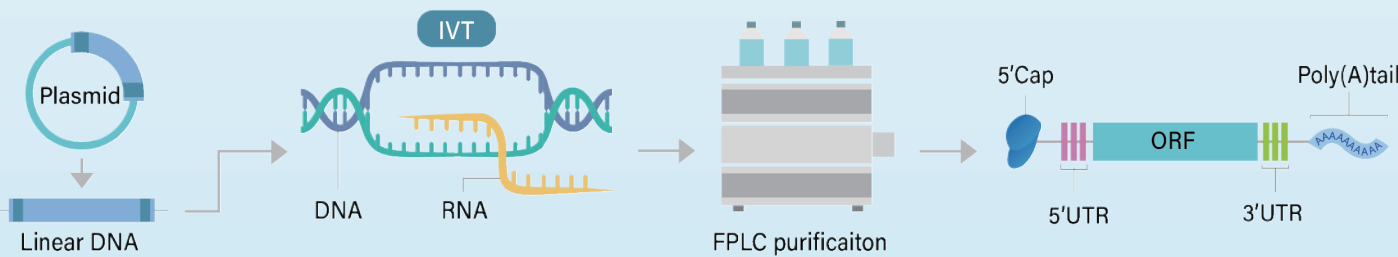
Croyez’s Endosafe kit offers an efficient, low-toxicity solution for delivering mRNA into various cell types. Designed for high transfection efficiency and cell viability, it features a simple protocol and broad cell compatibility—ideal for streamlined mRNA delivery in research settings.



Service

IVT mRNA Synthesis

Croyez provides an end-to-end solution for mRNA production—from gene synthesis to IVT. Our platform supports customized mRNA design with Cap1, poly(A) tail, and modified bases to meet diverse research and therapeutic needs.



Custom RNA Ladder

A customized RNA ladder can be tailored to meet your specific needs, ranging from 200 nt ,500 nt ,1,000 nt ,2,000 nt ,3,000 nt ,4,000 nt, 6,000 nt,9,000 nt to 12,000 nt,Tailor your research by choosing the desired number of bands for your specific needs.

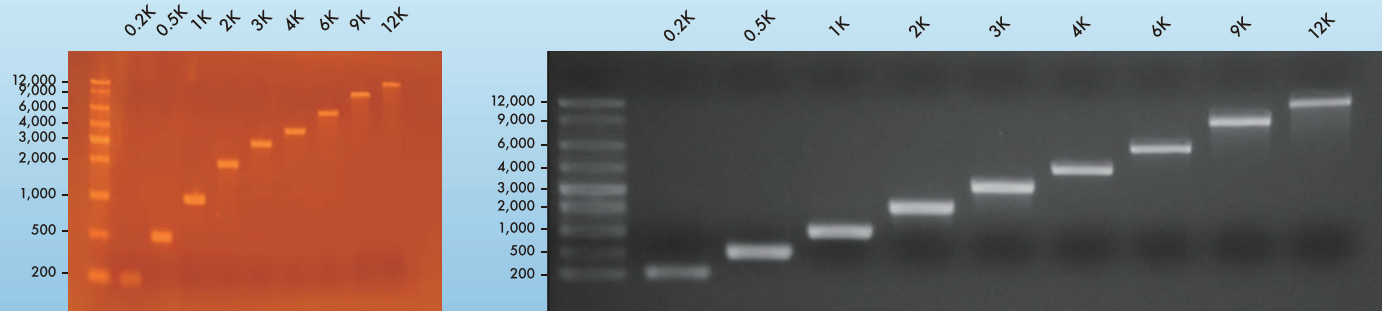


Figure 1: 100 ng RNA ,1% E-gel Figure 2: 100 ng RNA ,1% TAE agarose gel

Streamline Your mRNA Workflow
Croyez’s Integrated Solutions from IVT Raw Materials to Quality Control & Transfection



RNA Ladder

Croyez offers high-quality RNA ladders for accurate size estimation and quality control of RNA samples. Available in two ranges (200–6,000 nt and 200–12,000 nt), our ladders are in vitro transcribed and optimized for native agarose gel electrophoresis.

Application

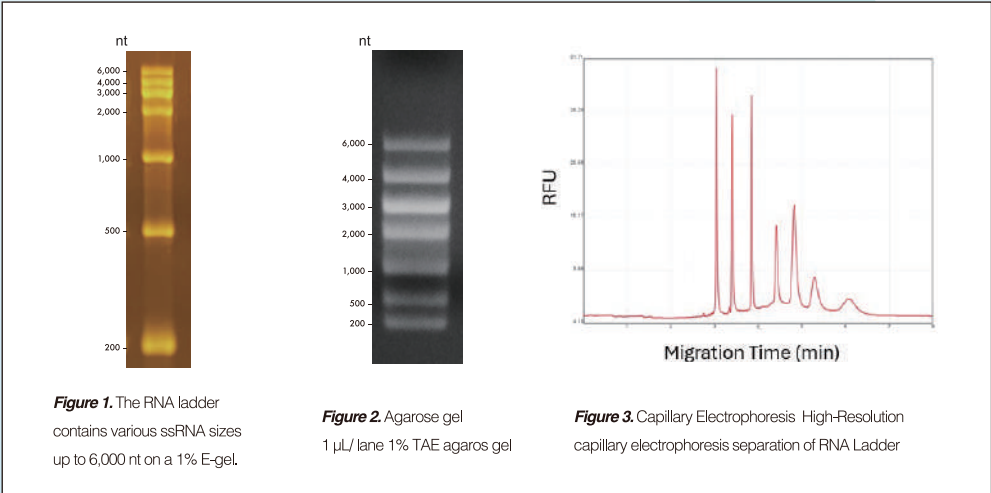
- **Standard and advanced gel QC:**
Accurate size estimation and visualization of RNA fragments using agarose or capillary electrophoresis.
- **Integrity checks for long/complex RNA:**
Assess full-length RNA species such as saRNA, taRNA, or lncRNA for potential degradation.
- **Ensuring delivery readiness:**
Verify RNA quality prior to transfection, electroporation, or other delivery methods to ensure experimental success.
- **Tailored sizing tools for bespoke application:**
Custom ladder formats available to match specific RNA constructs or workflow needs.

PRODUCTS

RNA Ladder

This RNA Ladder from Croyez Bioscience is synthesized producing single-stranded RNA fragments of 0.2, 0.5, 1, 2, 3, 4, and 6 nt. It is suitable for sizing and estimating RNA samples. When stained with EtBr or Safety Dye, distinct bands can be visualized under UV light.

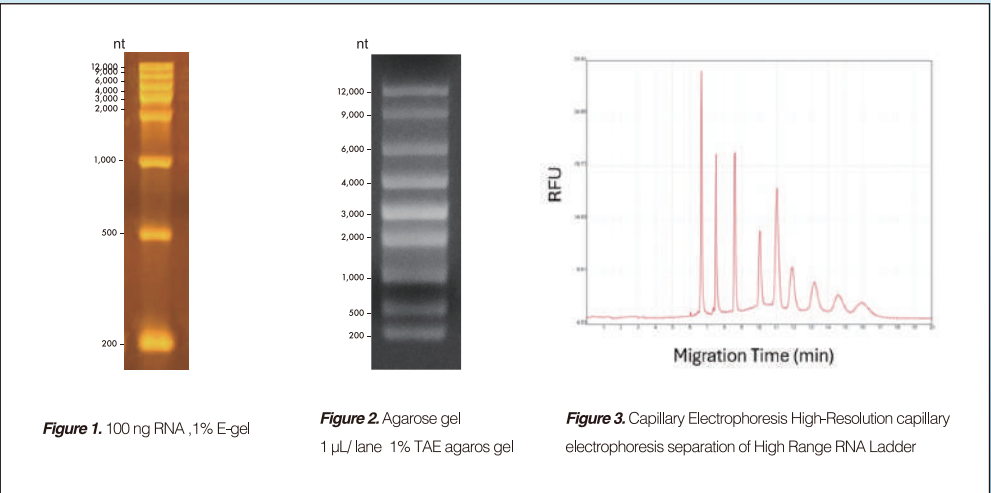
RNA Ladder - 0.2k ~ 6k nt



High RNA Ladder

This advanced High Range RNA Ladder is generated 0.2, 0.5, 1, 2, 3, 4, 6, 9, and 12 nt RNA fragments. It is tailored for analyzing large RNA species, such as full-length mRNA, saRNA, or lncRNA. Suitable for native agarose gels and compatible with EtBr or other safe dyes for clear band visualization.

High Range RNA Ladder - 0.2~ 12k nt



Cat#	Product	Package
CR00004	RNA Ladder	50 µL
CR00005	High Range RNA Ladder	50 µL

mRNA Raw material

The mRNA raw material category features key reagents essential for in vitro transcription (IVT) and mRNA synthesis workflows. CROYEZ offers both GMP-grade and RUO-grade high-purity enzymes to meet various research and manufacturing needs. These include enzymes such as T7 RNA polymerase, inorganic pyrophosphatase, as well as NTP solutions (ATP, UTP, CTP, GTP) and a range of buffer formulations optimized for transcription efficiency. These materials support high-yield mRNA production and enable users to fine-tune performance through buffer selection and nucleotide modifications. Ideal for applications in vaccine development, gene therapy, and synthetic mRNA research.

PRODUCTS

mRNA capping

mRNA Transcript

5' P P P 3'

+Vaccinia Capping Enzyme

Cap-0 mRNA

5' m⁷G P P P 3'

+mRNA Cap 2'-O-Methyltransferase

Cap-1 mRNA

5' m⁷G P P P 3'

OCH₃

Cat#	Product	Package
C15050-K01	Vaccinia Capping Kit	set
C15049-4KU	Murine RNase Inhibitor	4 KU
C09011-500U	RNase R	500U

Modified nucleotide

Pseudouridine (ψ) and N1-Me-pUTP (m1ψ) can be used to replace uridine in the IVT mRNA. It is demonstrated that the modified UTP can enhance RNA stability and decrease anti-RNA immune response.

ψ / m1ψ

5' 3'

Cat#	Product	Package
C15040-100μL	Pseudo UTP Sodium Solution	100μL
C15041-100μL	N1-Me-pUTP Sodium Solution	100μL

GMP grade - IVT enzyme

Cat#	Product	Package
C15010-GMP	GMP T7 RNA Polymerase	25KU\200KU
C15052-GMP	GMP * BspQI	2,500 U

RUO grade - IVT raw material

Cat#	Product	Package
C15010H-25000U	T7 RNA Polymerase(200 U /μL)	1mL*4
C15027-K01	T7 RNA Polymerase Transcription Buffer Set	Set
C15027-K02	T7 RNA Polymerase Transcription Buffer Set	Set
C15010HA-25000U	T7 RNA Polymerase with buffer A	25,000 U
C15010HB-25000U	T7 RNA Polymerase with buffer B	
C15010HC-25000U	T7 RNA Polymerase with buffer C	
C15010HD-25000U	T7 RNA Polymerase with buffer D	
C15010HE -25000U	T7 RNA Polymerase with buffer E	
C15010HF -25000U	T7 RNA Polymerase with buffer F	
C15010HG -25000U	T7 RNA Polymerase with buffer G	
C15010HH -25000U	T7 RNA Polymerase with buffer H	
C15010HI -25000U	T7 RNA Polymerase with buffer I	
C15009-K01	NTP Set, 100 mM Solutions	set
C15022 - 1ML	ATP Solution(100mM)	1mL
C15023 - 1ML	UTP Solution(100mM)	1mL
C15024 - 1ML	CTP Solution(100mM)	1mL
C15025 - 1ML	GTP Solution(100mM)	1mL
C15026 -10U	Inorganic Pyrophosphatase (Yeast)	10mL
C15026 -50U		50mL

mRNA QC product

The mRNA QC product category includes analytical tools used to evaluate the quality of in vitro transcribed (IVT) mRNA. These products focus on detecting common impurities generated during IVT processes, including residual T7 RNA polymerase and double-stranded RNA (dsRNA) byproducts. Accurate identification and quantification of these impurities are essential for assessing RNA purity, minimizing immunogenic risk, and supporting process development in RNA-based applications.

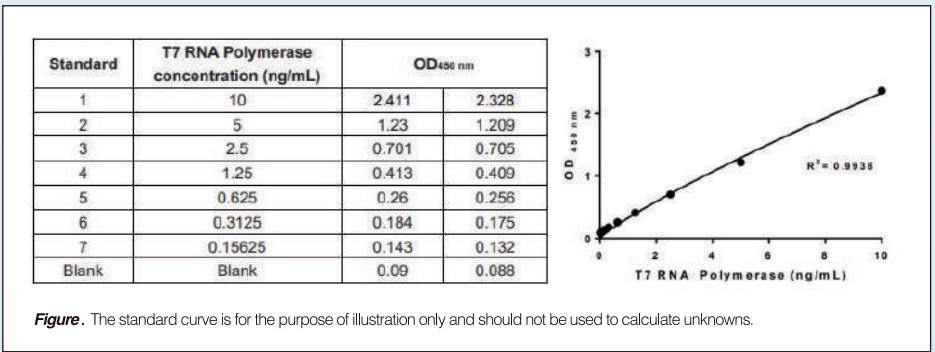
Application

- T7 Enzyme Detection** : Verify residual T7 RNA Polymerase to ensure purification and process quality.
- dsRNA Quantification** : Measure dsRNA impurities to reduce immunogenicity and enhance translation.
- Rapid Screening** : Use J2 antibody for quick visualization of dsRNA in early-stage development.
- Quality Assurance** : Support QC release and mRNA process optimization.

PRODUCTS

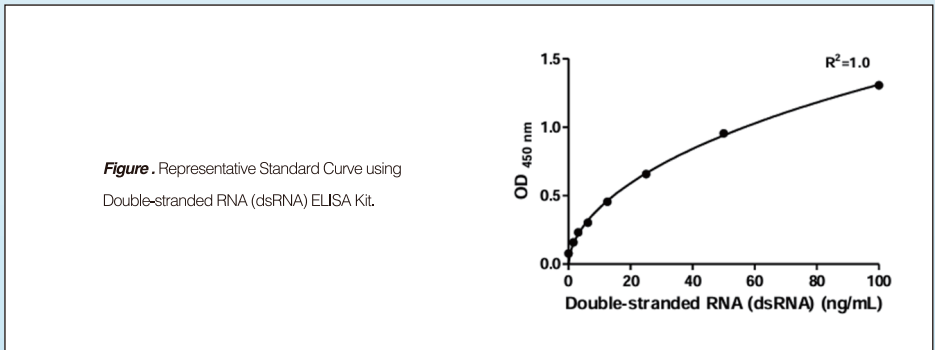
T7 RNA Polymerase ELISA Kit

An ELISA-based assay for quantifying T7 RNA Polymerase in IVT samples. Supports detection of residual enzyme to assess RNA purity and process performance. For research use only (RUO); not for diagnostic or therapeutic use.



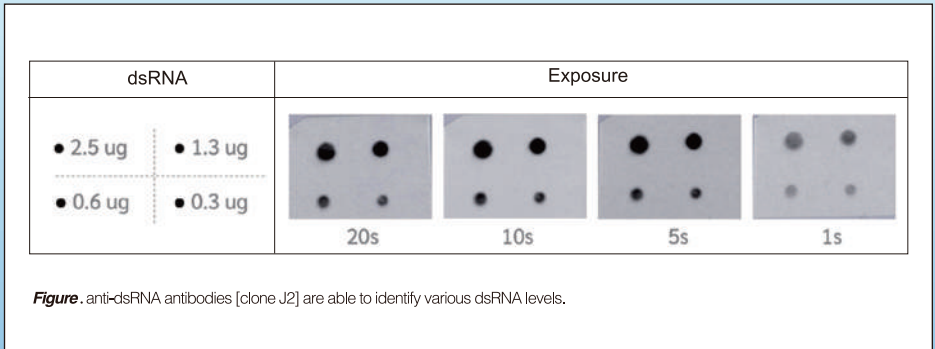
Double-Stranded RNA ELISA Kit

An ELISA-based assay for quantifying double-stranded RNA (dsRNA) in IVT mRNA samples. Enables sensitive detection of dsRNA impurities to support RNA quality assessment and immune safety profiling. For research use only (RUO); not for diagnostic or therapeutic use.



Anti-dsRNA antibody [clone J2]

A high-affinity monoclonal antibody for detecting double-stranded RNA (dsRNA) in dot blot, western blot, and immunostaining. Recognized standard for visualizing dsRNA contaminants in IVT mRNA workflows. For research use only (RUO); not for diagnostic or therapeutic use.



Cat#	Product	Package
C13004-K01	T7 RNA Polymerase ELISA Kit	kit
C13005-K01	Double-Stranded RNA ELISA Kit	kit
C15039-200UG	Anti-dsRNA antibody [clone J2]	200 μg