The Quality RNA Company

Established to enhance the quality of mRNA through improved RNA polymerases.

We believe that innovation with focus on integrity in mRNA production is key to the success of the mRNA medicine revolution.

We welcome all collaboration and are eager to be in contact on your needs regarding IVT requirements.

Our focus is on purity

Our **ArtPure™** purification platform is a novel system developed to generate enzymes that are over **99% pure**, **animal-origin free**, **without contaminants and enzyme inhibitors.** Resulting in RNA polymerases yielding **high quality mRNA.**

Ternaria Biosciences

TM-250420-1v2.

Explore our new catalogue and discover how we can support your research at www.ternariabio.com or contact us at ternariabio@ternariabio.com

ArtPure™ RNA Polymerases — Driving superior mRNA Quality

Ternaria Biosciences

Ternaria's mRNA is made using RNA polymerases that have been purified using our proprietary **ArtPure™ purification platform**. Comparison with industry standards shows preferable RNA yields and lower dsRNA by-products.

Our ultra-pure RNA polymerases are characterized by:

- > 99% enzyme purity
- No added enzyme inhibitors
- Animal origin-free (AOF)
- Lyophilized option for eco-friendly shipping and storage
- High specific enzymatic activity resulting in high quality RNA
- Free of contaminants (RNases, nucleases and proteases)

High enzyme purity

+

No additives

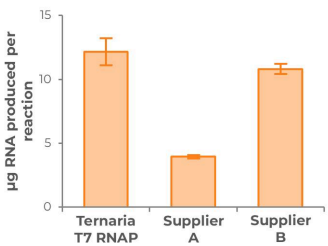
=

Superior RNA quality

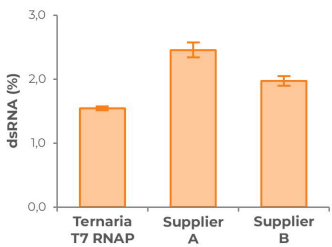
ArtPure™ enzymes are available as glycerol-based solution and lyophilized option, offering the possibility to ship enzymes at room temperature without compromising their superior quality.

T7 RNA POLYMERASE

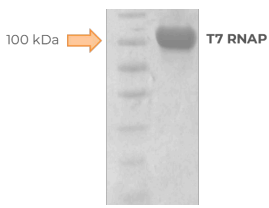
Superior RNA yield



Low dsRNA by-products

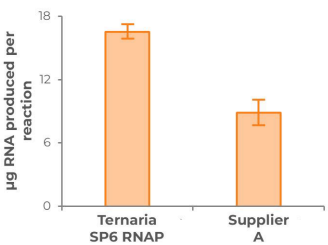


High purity - >99%

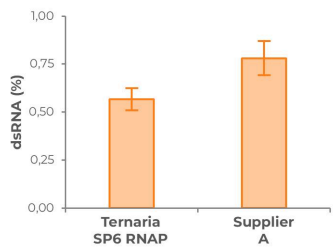


SP6 RNA POLYMERASE

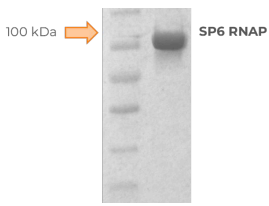
Superior RNA yield



Low dsRNA by-products



High purity - >99%



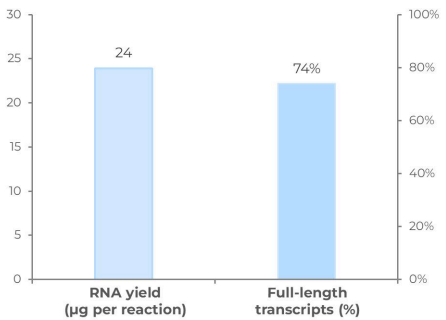
ZEBRASCRIBE TRANSCRIPTION KITS

The **ZebraScribe Transcription kits** enable the production of high yields of ARCA-capped mRNA through *in vitro* transcription using either **T7** or **SP6 RNA polymerase**. Each reaction can yield 20-25 µg of mRNA. This is possible thanks to optimized reaction conditions, nucleotide concentrations and a GTP-ARCA ratio that ensures maximum yield, transcript integrity and efficient capping.

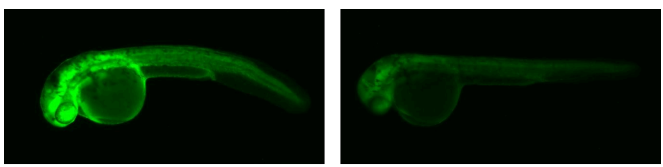
The nucleotides and the ARCA are available either as a convenient 5x mix, or in individual vials, allowing flexibility for incorporating modified nucleotides into transcription reactions.

High yield and RNA integrity

SP6 ZebraScribe Transcription Kit



Gene expression verified in Zebra Fish



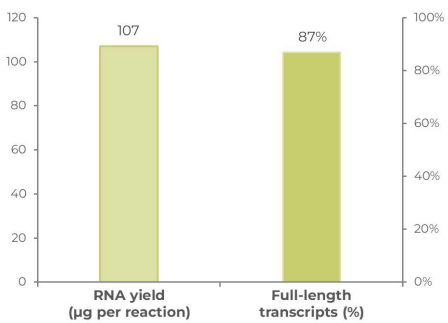
Ternaria | Supplier A

T7 RNA SYNTHESIS KIT

Our **RNA Synthesis Kits** are designed to provide flexible, high-yield synthesis of **uncapped RNA** using *in vitro* transcription with either **T7** or **SP6 RNA polymerase**. Reactions have been optimized to yield approximately 100–120 µg of high-integrity RNA after a 2-hour incubation.

The synthesized RNA can be used for downstream applications such as RNA structure and function studies, microinjection, transfection, *in situ* hybridization and *in vitro* translation.

High yield and RNA integrity



Enzyme	Item n°	Form	Pack Size	Price
T7 RNA Polymerase	Z0711	Glycerol based	10,000 U	Contact us at **sales@ternariabio.com** to get a quote
	Z0713	Glycerol based	30,000 U	
	Z071X	Glycerol based	Custom	
	Z0721	Lyophilized	10,000 U	
	Z0723	Lyophilized	30,000 U	
	Z072X	Lyophilized	Custom	
SP6 RNA Polymerase	Z0612	Glycerol based	2,000 U	
	Z061X	Glycerol based	Custom	
	Z0622	Lyophilized	2,000 U	
	Z062X	Lyophilized	Custom	

Kits for RNA production	SKU	Pack Size	Price
ZebraScribe T7 Transcription Kit	ZKT0725	25 reactions	Contact us at **sales@ternariabio.com** to get a quote
	ZKT0750	50 reactions	
ZebraScribe SP6 Transcription Kit	ZKT0625	25 reactions	
	ZKT0650	50 reactions	
T7 RNA Synthesis Kit	KS07025	25 reactions	
	KS07050	50 reactions	
	KS070200	200 reactions	
SP6 RNA Synthesis Kit	KS06025	25 reactions	
	KS06050	50 reactions	
	KS060200	200 reactions	

RNA	Item n°	Pack Size	Price
Custom made RNA	M010X	Custom	Contact us

Explore our new catalogue and discover how we can support your research at www.ternariabio.com or contact us at ternariabio@ternariabio.com