





Prima RNAPols™ ExTend kit



LONG-TEMPLATE mRNA SYNTHESIS

Prima RNAPols™ ExTend is an innovative RNA polymerase engineered to address challenges in the *in vitro* transcription (IVT) manufacturing of mRNA. It outperforms traditional T7 polymerase by generating higher-quality mRNA with lower dsRNA and reduced costs.

KEY FEATURES & BENEFITS

-  **High-Quality, High-Purity mRNA** – Generates long-template mRNA with superior integrity compared to T7 polymerase.
-  **Ultra-Low dsRNA** – Minimizes unwanted byproducts, reducing immune response risks and improving the safety and effectiveness of mRNA therapeutics and vaccines.
-  **Maximize Yield with Less Input** – Increases mRNA output while using less DNA template, lowering costs and streamlining the manufacturing process.
-  **Compatibility with Various mRNA Structures** – Supports diverse mRNA modalities and modified nucleotides.

Prima RNAPols™ ExTend Kit

CONTAINS THE FOLLOWING FOR 50 IVT REACTIONS:

- 5,000 U RNA Polymerase (100 µL)
- 5x Reaction Buffer (4 x 100 µL)
- 2 kb Linearized DNA Template (25 µL)

For Research Use Only (RUO)

LEARN MORE:



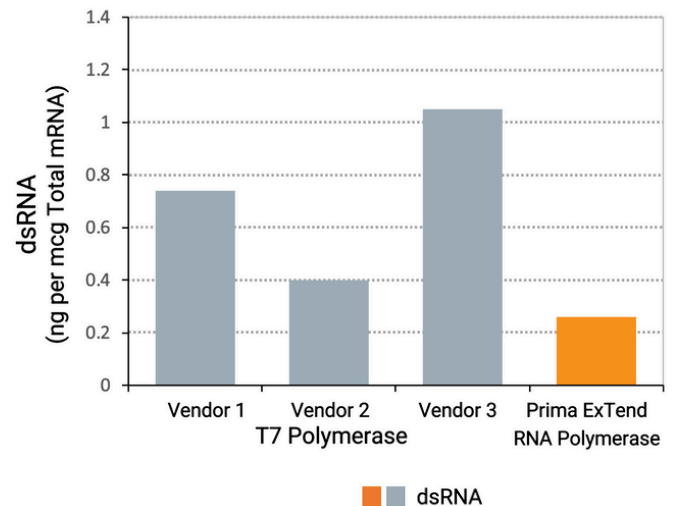
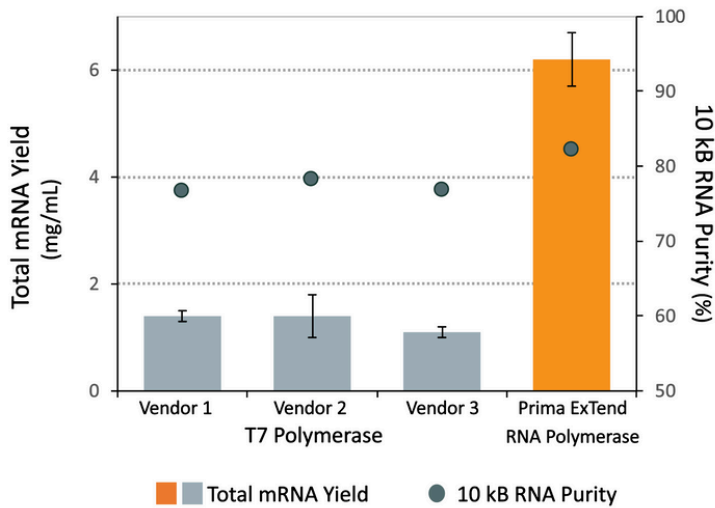
COMING SOON:

Prima RNAPols™ ExTend for GMP
mRNA manufacturing.

Seamlessly transition from discovery to
clinical applications.

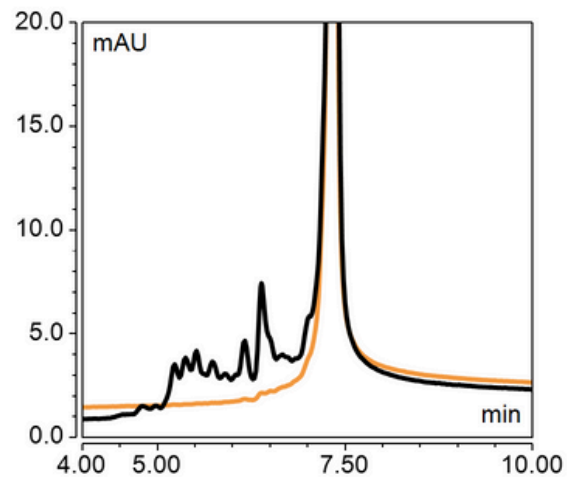
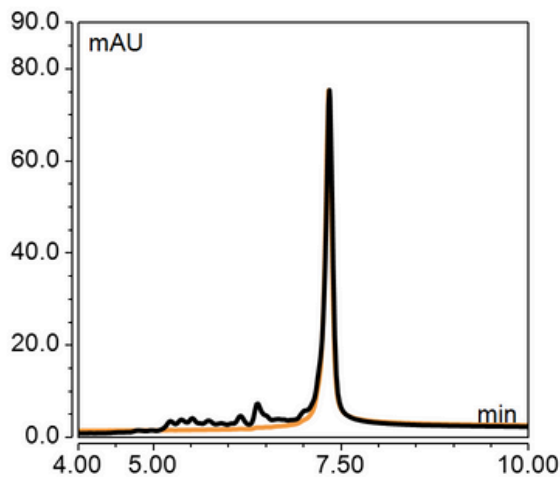


PERFORMANCE DATA



Total yield was determined using a fluorescence assay. mRNA purity was determined using IP-RP-HPLC for 10kb mRNA with UTP. Similar results observed using N1-methylpseudouridine.

dsRNA levels were determined using the J2-based ELISA kit for 10kb mRNA with UTP. Similar results observed using N1-methylpseudouridine.



IP-RP-HPLC shows that Prima RNAPols ExTend controls aborted sequences as compared to T7 for a 10 kB template.

Transform your mRNA pipeline today

WE ARE READY TO HELP YOU INTEGRATE PRIMA RNAPOLS™ EXTEND INTO YOUR WORKFLOW.