

T7 RNA Polymerase

High-Quality Enzyme for all stages, from Research to Commercial Launch

Unlock the potential of your research with our GMP grade T7 RNA Polymerase. Your key to breakthrough in RNA synthesis

Our **-GMP grade-** T7 RNA Polymerase (T7 RNAP) stands as a linchpin in the synthesis of RNA, which finds a myriad of clinical applications. From mRNA for **vaccines**, to facilitating gene editing **therapies**, nucleotide-based antibodies, therapeutics proteins or protein replacement among others.

No side activities interference

Precise control of side activities impacting the integrity of template DNA and RNA product are **crucial for IVT reactions**. Canvax rigorous testing ensures that **endonuclease, exonuclease, unspecific DNase and RNase activities** do not affect the performance of the reaction, guaranteeing optimal results.

Excellent Purity

Canvax has developed a stringent **purification protocol** for T7 RNAP to get rid of other proteins (**≥95%**) and their unwanted activities. The protocol includes also steps to eliminate the **host DNA**, to avoid its use as template, maintaining the assay **accuracy, reliability and safety**.

Other controls

Canvax adhere to strict controls throughout the manufacturing process. This includes **avoiding** the use of **β-lactam antibiotics** and **materials of animal origin**, as well as stringent testing for **endotoxins, bioburden**, and security about **TSE/BSE**. All aimed at enhancing the safety of further manufacture products

Better yields on NT reactions

The T7 RNAP from Canvax **outperforms other polymerases in IVT reactions**. Its compatible with **co-transcriptional capping methods** and the resulting RNA maintains excellent integrity with **minimal dsRNA contamination**, ensuring high-quality outputs for your ends.

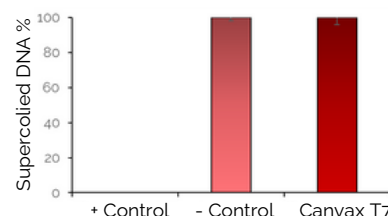


Fig 1. Endonuclease test. % of Supercoiled DNA after incubation with an endonuclease, with no enzyme and a solution including Canvax's T7

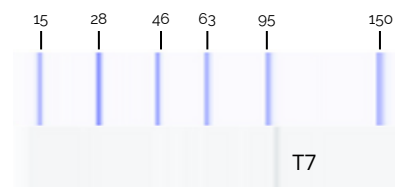


Fig 2. Biochip analysis of T7 RNAP purity (99 kDa)



Fig 3. Other test regarding security and purity of the enzyme

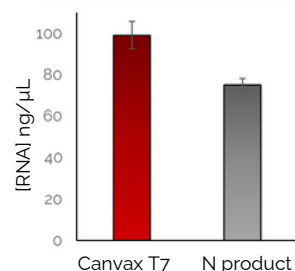


Fig 4. Comparative assay of the synthesis of RNA between (*) the most marketed T7 RNAP brand and Canvax's.



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About us

Since 2001, Canvax has been an original Manufacturer & Supplier of the Most Innovative, **Enzymes, Kits, Buffers and Reagents**. Due our customizable and adaptable manufacturing structure, reduced overhead and capacity to BULK manufacturing with the highest quality standards, we are **leading the Life Science industry in terms of product performance, manufacturing capabilities and customer service**.

Quality & Certifications

Thanks to its **first-class manufacturing facilities**, Canvax offer **a solution for all the stages of your process development**. From **research-use** to **preclinical** studies or **clinical-grade** applications, assuring that the product quality won't represent a problem in the future.

4,500 m² of facilities certified for **ISO 9001, 13485** and **cGMP**.

Scalable & Customizable

Canvax proudly offer a **customized solution** ad-hoc to customer needs (**packaging, formulation, concentration...**) and at different volumes, from **lab-scale** (milligrams) to **commercial-scale** (grams to multi-grams) in a few weeks.

As original manufacturer, free of third-party IP, we ensure **streamlined agility**. A smooth, and secure solution with **short manufacturing times** and a **robust supply chain**

Experienced team

Our **60+ employees** (~35% PhD) have **wide experience** across all stages of the **biopharmaceutical value chain**, from research up to clinical stage. A dedicated personnel stands **ready to address any questions** you may have regarding the **integration of our enzymes into your processes**. Count on us to streamline your journey from discovery to commercialization, ensuring seamless and successful outcomes.

How to start?

If you are interested to learn more, please write us at info@canvaxbiotech.com or visit canvaxbiotech.com/contact-us. Our Business Development Team will contact you shortly.

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