Horse-Power™ Taq DNA Polymerase

Redefining High-Quality and Reliable Enzyme Solution

Streamline Your Tests: Our Polymerase Guarantees Accuracy for Healthcare Professionals and Researchers in their Diagnostic endeavors

Experience the **gold standard in DNA amplification** with **Horse-Power™ Taq DNA Polymerase**, trusted for **consistent results** and **robust performance**. With its 5'→3' polymerase activity and a weak 5'→3' exonuclease activity, our *Taq* **meets the regulatory demands** whether for detecting infectious diseases, genetic disorders, monitoring therapeutic outcomes, or other **diagnostics applications**. **Lyophilization-ready** solution available**.**

Excellent Purity

Canvax has developed a stringent **purification protocol** for *Taq* Polymerase to get rid of **contaminant proteins** (**≥95%**) and their unwanted activities. The process includes steps to eliminate the residual **host DNA**, maintaining assay **accuracy**, **reliability,** and **safety**. **Bioburden** is also controlled during manufacturing, ensuring a **low** or **null load** in the final product.

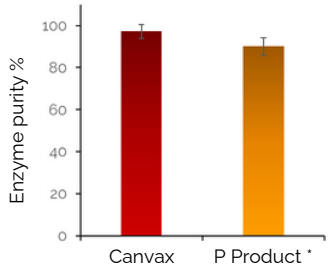


Fig 1. Comparative enzyme purity between (*) one of the most marketed *Taq* brand and Horse-Power™ Taq DNA Polymerase

Seamless implementation

At Canvax, we have been **working with enzymes for molecular diagnostics for more than 12 years**, thus we know the critical importance of **precision** and **adaptability** when it comes to **kit manufacture**.

Horse-Power™ Taq DNA Polymerase effortlessly **blends with our premium Mastermixes** (visit our website for more info) **or your custom formulations**, ensuring smooth PCR workflows and reliable results.



Fig 2.. Examples of Canvax Mastermixes to be combined with Horse-Power™ Taq DNA Polymerase

No side activities interference

Precise control of side activities impacting the integrity of nucleotides is crucial for the synthesis of DNA. Canvax rigorous testing ensures that **endonuclease**, **exonuclease**, **RNase**, among other activities, do not affect the performance of the reaction, **guaranteeing optimal results**.

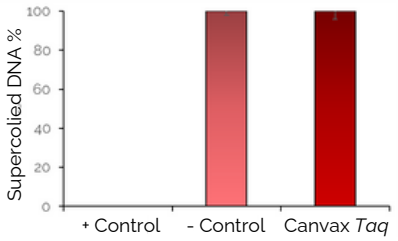


Fig 3. Enodonuclease test. % Supercoiled DNA after incubation with an endonuclase, with no enzyme and a solution including Horse-Power™ Taq DNA Polymerase

One trusted enzyme for diverse challenges

Horse-Power™ Taq DNA Polymerase can be included in **several DNA amplification processes**. For standard **PCR**, **RT-PCR** processes, **amplification of DNA mixtures** and detection of **specific sequences** with the appropriate probe, integration in reactions with **dTUP** and **UDG** to avoid carryover contamination, and incorporation of **labeled nucleotides**, among others.

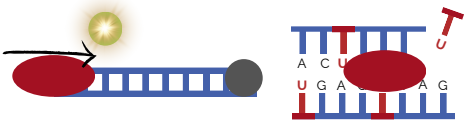


Fig 4. Some of the applications that can be performed with Horse-Power™ Taq DNA Polymerase

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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 m^2 of facilities certified for **ISO 9001**, **ISO 13485** and **cGMP**.

Scalable & Customizable

Canvax proudly offers a **customized solution** ad-hoc to customer needs including **lyophilization-friendly formulation** 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 **value chain of diagnostic tools**, 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 kits**. 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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