



**SOLIS
BIODYNE**

HOT TERMIPol[®] DNA Polymerase Kit

Catalogue Number	Pack Size (5 U/ μ l)
01-06-KIT-0000S	500 U SAMPLE
01-06-KIT-00500	500 U
01-06-KIT-02000	2000 U



Shipping:

At room temperature

Batch Number and Expiry Date:

See vial

Storage and Stability*:

- Routine storage at -20°C (-28°C to -18°C) until expiry date.
- Stable at 4°C (2°C to 8°C) for 6 months.
- Stable at room temperature (25°C) for 1 month.
- Freeze-thaw stability: 30 cycles.

Reaction setup:

At room temperature.

Manufactured by Solis BioDyne, in compliance with the ISO 9001 and ISO 13485 certified Quality Management System.

**Store at -20°C
upon receipt**

Product description:

- HOT TERMIPol[®] DNA polymerase is a chemically modified TERMIPol[®] DNA polymerase. At ambient temperatures it is inactive, having no polymerase activity. HOT TERMIPol[®] DNA polymerase is fully activated by a 5-10-minute incubation at 95°C. This prevents extension of non-specifically annealed primers.
- HOT TERMIPol[®] DNA Polymerase is a thermostable DNA polymerase suited for MALDI-TOF mass spectrometry and other primer extension platforms.
- The enzyme has 5' → 3' polymerase activity and enhanced efficiency for incorporating unconventional nucleotides (ddNTPs and labeled ddNTPs).
- Purified from an *E. coli* strain that carries an overproducing plasmid containing a modified gene of *Thermus aquaticus* DNA Polymerase.

Kit content:

Component	Catalogue Number		
	01-06-KIT-0000S	01-06-KIT-00500	01-06-KIT-02000
HOT TERMIPol [®] DNA Polymerase (5 U/μl)	500 U / 100 μl	500 U / 100 μl	2000 U / 400 μl
10x Reaction Buffer C	5 ml	5 ml	2 x 5.0 ml
100 mM MgCl ₂	5 ml	5 ml	2 x 5.0 ml

- HOT TERMIPol[®] DNA Polymerase (5 units/μl) in 20 mM Tris-HCl pH 8.7 at 25°C, 100 mM KCl, 0.1 mM EDTA, 50% glycerol (v/v), and stabilizers.
- 10x Reaction buffer C 500 mM Tris-HCl pH 9.5 at 25°C.
- 100 mM MgCl₂

Quality control:

The enzyme is free of nicking and priming activities, exonucleases and non-specific endonucleases. The error rate per nucleotide per cycle is $\sim 8 \times 10^{-5}$. Estimated half-life at 95°C is 1.5 hours.

Unit definition:

One unit is defined as the amount of enzyme required to catalyze the incorporation of 10 nmol of dNTPs into an acid-insoluble form in 30 minutes at 74°C.

Safety precautions:

Please refer to the Safety Data Sheet for more information.

Technical support:

Contact your sales representative for any questions or send an email to support@solisbiodyne.com

DS-01-06-KIT v1. Effective from: 30.01.2024

Reason for revision: Document format, text, product name and catalogue number updated. Former product HOT TERMIPol[®] DNA Polymerase (Cat. No.: 01-06-0000S, 01-06-00500, 01-06-02000).

***Product stability** is assessed using routine QC assays and QC criteria set forth in the product specification and are intended to provide guidelines for shipping and storage conditions only. The customer or its designee shall be responsible for conducting all necessary stability testing applicable to their assay and/or QC criteria, and to comply with any applicable regulatory requirements or guidelines. Such stability testing shall include testing to validate the lead times for shipment, the shelf life of, and the product specifications applicable to shipment, storage and handling of the assay assembled and packed by the customer.

Permitted Use: This product is supplied for research use only. Some applications of this product may require a license/licenses from Solis BioDyne OÜ or one or more third parties which are not provided by the purchase of this product. This product shall comply with its relevant specification and be fit for its stated purpose, Solis BioDyne OÜ gives no other warranty and makes no representation as to description or quality. For more information and full disclaimers, please contact our customer service. ****Covered by patent EP2501716, made following the methods of US Patent No 9,321,999.**

Trademark information: TERMIPol is a registered trademark of Solis BioDyne OÜ

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