Solis BioDyne
Certificate of Analysis

FIREPol® DNA Polymerase

Cat. No.

Lot. No.

Dispense No.

Expiry date

Description:
FIREPol® is a recombinant, highly processive and thermostable DNA polymerase. Due to its genetic modifications FIREPol® has an enhanced stability at room temperature with no activity loss for up to 1 month.

Reagents provided:
- **FIREPol® DNA Polymerase**
- **10x Reaction buffer B** (Mg^{2+} free)
  0.8 M Tris-HCl, 0.2 M $(NH_4)_2SO_4$, 0.2% w/v Tween-20
- **10x Reaction buffer BD** (Mg^{2+} and detergent free)
  0.8 M Tris-HCl, 0.2 M $(NH_4)_2SO_4$
- **25 mM $MgCl_2$**
- **10x Solution S**
  Additive that facilitates amplification of difficult templates (e.g. GC-rich DNA templates). This solution should be used at a defined working concentration (1x, 2x or 3x solution).

  Solution S is NOT a reaction buffer and should be used ONLY IF non-specific amplifications occur.

Concentration:
5 U/µl

Shipping and Storage conditions:
Routine storage: -20°C
Shipping and temporary storage for up to 1 month at room temperature has no detrimental effects on the quality of FIREPol® DNA Polymerase.

Quality Control:

Assay	Result
Amplification efficiency	$\geq 10^5$ fold
PCR reproducibility	passed
ds Endodeoxyribonuclease activity	no
ss Exodeoxyribonuclease activity	no
Self-priming activity	no

Safety warnings and precautions:
This product and its components should be handled only by persons trained in laboratory techniques. It is advisable to wear suitable protective clothing, such as laboratory overalls, gloves and safety glasses. Care should be taken to avoid contact with skin or eyes. In case of contact with skin or eyes, wash immediately with water.

Some applications this product is used in may require a license which is not provided by the purchase of this product. Users should obtain the license if required.

FOR RESEARCH USE ONLY

APPROVED BY:

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Solis BioDyne
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