AMPLIQON
PCR ENZYMES & REAGENTS

G2 DNA/RNA Enhancer

Freeze dried in 0.1 mm beads

MADE IN **DENMARK**

Cat. No.: A420125
25 vials

A420125

-	G2 DNA/RNA Enhancer, 0.1 mm beads
ID No.	**4100100**
Cap colour	**Blue**
Content	25 x vials

Features and General Description

G2 DNA/RNA Enhancer is convenient to use, when optimal DNA and or RNA extraction yield is required from especially clay. The primary function of G2 DNA/RNA Enhancer is to relieve inhibitory DNA-clay particle formations. G2 DNA/RNA Enhancer increased microbial DNA and RNA yield from clay – at least 2-10 fold.
G2 DNA/RNA Enhancer should be used in combination with either standardized extraction methods or commercial kits intended for DNA & RNA extraction from soil and clay.

Recommended Storage and Stability

Storage at -20 to 25 °C. Keep dry.

Quality Control

G2 DNA/RNA Enhancer is tested for contaminating activities, with no trace of endonuclease activity, nicking activity, exonuclease activity or RNase activity. Furthermore, G2 DNA/RNA Enhancer is functionally tested with regard to DNA extraction in a difficult-to-extract matrix.

Kit Components

Ampliqon G2 DNA/RNA Enhancer

Freeze dried G2 DNA/RNA Enhancer and 0.1 mm beads in a 2 ml tube.

Protocol

This protocol serves as a guideline for DNA and RNA extraction when using G2 DNA/RNA Enhancer. The G2 DNA/RNA Enhancer must be applied with an extraction kit.

Procedure:

- Add 0.25 grams of soil sample to the G2 DNA/RNA Enhancer tube.
- Apply your DNA or RNA isolation kit. E.g. MOBIO PowerSoil® DNA Isolation Kit or PowerLyzer™ PowerSoil® DNA Isolation Kit.
    - If the bead-beating tube of the kit contains a lysis buffer, transfer this lysis buffer to the G2 tube and discard the now empty bead-beating tube of the kit.
    - If the kit offers separate bead-beating tube and lysis buffer, add lysis buffer to the G2 tube and discard the bead-beating tube of the kit.
- Gently vortex.
- Proceed by following the manufacturer's kit instructions, using the G2 tube instead of the bead beating tube of the isolation kit, in order to obtain optimal results.

Related Products

G2 DNA/RNA Enhancer	Cat. No.
0.1 mm Beads	
• 10 vials	**A420110**
• 25 vials	**A420125**
• 50 vials	**A420150**
• 100 vials	**A420100**
1.4 mm Beads	
• 10 vials	**A421410**
• 25 vials	**A421425**
• 50 vials	**A421450**
• 100 vials	**A421400**
Liquidized	
• 10 reactions	**A420015**
• 50 reactions	**A420025**
• 100 reactions	**A420035**

PCR Grade Water	Cat. No.
6 x 5 ml	**A360056**

Taq Polymerase (500 units) *	Cat. No.
Taq DNA Polymerase 5 U/µl	**A110003**
• with 10x Ammonium Buffer	**A111103**

Hot Start Polymerase (500 units) *	Cat. No.
TEMPase Hot Start DNA Polymerase, 5 U/µl	**A220003**
• with 10x Ammonium Buffer	**A221103**

*Available in kits including one or two buffers (Ammonium Buffer, Standard Buffer or Combination Buffer). **AccuPOL only available in kits with Ammonium Buffer. All kits include extra 25 mM $MgCl_2$.

Taq Master Mixes (500 x 50 µl reactions) *	Cat. No.
2x Master Mix, 1.5 mM $MgCl_2$ final concentration	**A140303**
2x Master Mix RED, 1.5 mM $MgCl_2$ final concentration	**A180303**

TEMPase Hot Start Master Mixes (500 x 50 µl reactions) *	Cat. No.
2x Master Mix A**, 1.5 mM $MgCl_2$ final concentration	**A230303**
2x Master Mix A**BLUE, 1.5 mM $MgCl_2$ final concentration	**A290403**

*Master mixes available also in 1.1x variants as well as 2 mM $MgCl_2$ variants, **Mix A is Ammonium Buffer based, also available as Mix C based on Combination Buffer.

Real-time PCR Master Mixes (400 x 25 µl reactions)	Cat. No.
RealQ Plus 2x Master Mix for probe,	
• without ROX™	**A313402**
• with low ROX™	**A314402**
• with high ROX™	**A315402**
RealQ Plus 2x Master Mix Green	
• without ROX™	**A323402**
• with low ROX™	**A324402**
• with high ROX™	**A325402**

For Research Use Only. Not for use in diagnostics procedures.

Other product sizes, combinations and customized solutions are available. Please look at www.ampliqon.com or ask for our complete product list for PCR Enzymes. For customized solutions please contact us.

Made in Denmark

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