

## G2 DNA/RNA Enhancer

Freeze dried in 0.1 mm beads

MADE IN DENMARK

Cat. No.: A420110

10 vials



A420110

-	<b>G2 DNA/RNA Enhancer, 0.1 mm beads</b>
<b>ID No.</b>	<b>4100100</b>
<b>Cap colour</b>	<b>Blue</b>
<b>Content</b>	10 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<sub>2</sub>.

Taq Master Mixes (500 x 50 μl reactions) *	Cat. No.
2x Master Mix, 1.5 mM MgCl <sub>2</sub> final concentration	A140303
2x Master Mix RED, 1.5 mM MgCl <sub>2</sub> final concentration	A180303

TEMPase Hot Start Master Mixes (500 x 50 μl reactions) *	Cat. No.
2x Master Mix A**, 1.5 mM MgCl <sub>2</sub> final concentration	A230303
2x Master Mix A**BLUE, 1.5 mM MgCl <sub>2</sub> final concentration	A290403

\*Master mixes available also in 1.1x variants as well as 2 mM MgCl<sub>2</sub> 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](http://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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