

## G2 DNA/RNA Enhancer

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**

Issued 08/2025

MADE IN DENMARK

Cat. No.	G2 DNA/RNA Enhancer, 0.1 mm beads ID: 4100100	G2 DNA/RNA Enhancer, 1.4 mm beads ID: 4101400
A420299	3 vials	3 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 traces of endonuclease activity, nicking activity, exonuclease activity or RNase activity. Furthermore, G2 DNA/RNA Enhancer is functionally tested regarding 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.
- Freeze dried G2 DNA/RNA Enhancer and 1.4 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. DNeasy PowerSoil Pro 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.