

G2 DNA/RNA Enhancer Beads - 0.1mm lyophilizate

Component	Cat#	A420110	A420125	A420150	A420100	Colour code of cap
G2 DNA/RNA Enhancer Beads - 0.1mm - lyophilizate.		10 vials 10 extractions	25 vials 25 extractions	50 vials 50 extractions	100 vials 100 extractions	blue

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.

Product Specifications

Lyophilized G2 DNA/RNA Enhancer and G2 DNA/RNA Enhancer 0.1mm beads in a 2mL screw cap tube.

For use in combination with either standardized extraction methods or commercial kits intended for DNA & RNA extraction from soil and clay.

Features

- Inhibition of DNA and RNA sorption to clay particles
- At least 2-10 fold increased yield of microbial DNA and RNA.
- No trace of endonuclease-, nicking-, exonuclease- or RNase activity

Storage and Stability

Store at -20°C up to +30°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.

Exonuclease activity:	tested	not detected
Endonuclease activity:	tested	not detected
RNase activity:	tested	not detected
Nicking activity:	tested	not detected

Furthermore, G2 DNA/RNA Enhancer is functionally tested with regard to DNA extraction in a difficult-to-extract matrix.

Product Use Limitations

G2 DNA/RNA Enhancer is developed, designed, and sold for research purposes only. It is not to be used for human, diagnostic or drug purposes or to be administered to humans unless expressly cleared for that purpose by the Food and Drug Administration in the USA or the appropriate regulatory authorities in the country of use. All due care and attention should be exercised in the handling of many of the materials described in this manual.

Safety information

When working with chemicals, always wear a suitable lab coat, disposable gloves, and protective goggles. For more information, please consult the appropriate material safety data sheets (MSDSs). These are available online as pdf-file or on request (info@genaxxon.com).

Protocol

This protocol serves as a guideline for DNA and RNA extraction when using G2 DNA/RNA Enhancer.

NOTE: 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.
- Take your DNA or RNA isolation kit. E.g., MOBIO PowerSoil® DNA Isolation Kit or PowerLyzer™ PowerSoil® DNA Isolation Kit and transfer the lysis buffer of the kit to the G2 DNA/RNA Enhancer Bead tube.
 - 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 tubes and lysis buffer, add the lysis buffer to the G2 DNA/RNA enhancer 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, to obtain optimal results.

Related Products

Cat #	Description
M3023	GreenMastermix without ROX™ for real time PCR / qPCR.
M3052	GreenMastermix with High ROX™ for real time PCR / qPCR.
M3010	ProbeMastermix with High ROX™ for real time PCR / qPCR / multiplex PCR.
M3045	ProbeMastermix without ROX™ for real time PCR / qPCR / multiplex PCR.
M3307	SuperHotStart <i>Taq</i> DNA Polymerase for real time PCR / qPCR / multiplex PCR.
M3024	5X Multiplex qPCR master mix (FAST PCR)
M3014	Mastermix with <i>Taq</i> DNA polymerase for high efficiency PCR.
M3029	Mastermix with <i>Taq</i> DNA polymerase and a red dye for visualizing pipetting.
A421xxx	G2 DNA/RNA Enhancer Beads - 1.4mm (10, 25, 50, 100 vials - extractions)
M6340.0502	5x 2mL nuclease-free water
A7701xx	AQ97 proofreading MasterMix 2X
M3009	SNP Pol DNA Polymerase optimized for detection of single point mutations.
M3025	SNP PolTaq DNA Polymerase optimized for detection of single point mutations with probes like TaqMan, Beacons, etc..