

# G2 DNA / RNA ENHANCER



SAMPLES  
AVAILABLE ON  
REQUEST

**Increases nucleic acid extraction yield of:**

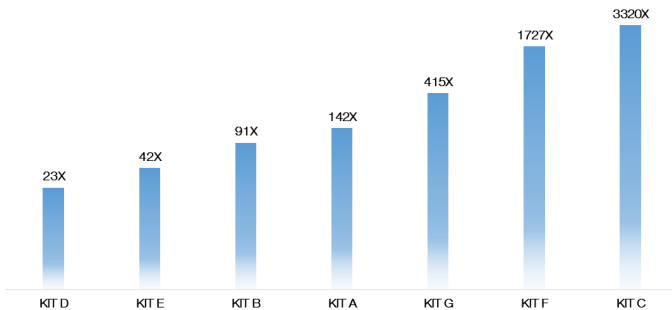
- Clay sub-soils At least 2 – 10 fold
- Active carbon 20 – 3300 fold
- Other difficult matrices

**Use in combination with:**

- Standardised extraction methods
- Commercial kits intended for DNA & RNA extraction from soils

## ACTIVE CARBON

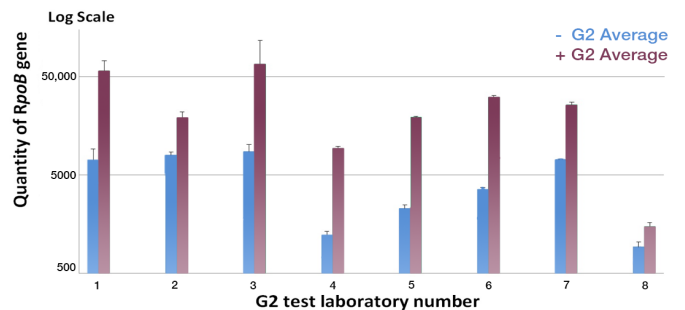
EFFECT OF ADDING G2 DNA/RNA ENHANCER ON DNA YIELD



The effect of adding the G2 DNA/RNA Enhancer before the bead-beating step of the DNA extraction protocol was tested using 7 different commercial kits (A-G). Addition of G2 DNA/RNA Enhancer improved the DNA yield from samples containing active carbon significantly, by 20 – 3000 fold, depending on kit used. All samples contained 200 mg pellets of active carbon and 50 µl E. coli (3 x 10<sup>7</sup> cfu/ml)

## CLAY SUB-SOILS

EFFECT OF ADDING G2 DNA/RNA ENHANCER ON DNA YIELD



A commercial kit intended for extraction of DNA from soil was tested with and without the addition of G2 DNA/RNA Enhancer. A 10-fold increase in DNA yield was observed after addition of G2 DNA/RNA Enhancer. Microbial DNA from 25 clay subsoils were extracted independently by 8 different laboratories (1 – 8). All the samples were analyzed using RpoB gene copy number.

	Content	Cat #
G2 DNA/RNA Enhancer 0.1 mm beads Freeze dried reactions in 2 ml tubes	10 vials	A420110
	25 vials	A420125
	50 vials	A420150
	100 vials	A420100
G2 DNA/RNA Enhancer 1.4 mm beads Freeze dried reactions in 2 ml tubes	10 vials	A421410
	25 vials	A421425
	50 vials	A421450
	100 vials	A421400