EURx® MOLECULAR BIOLOGY PRODUCTS

Mini Glass Beads

Glass Beads for beat beating 0.1 mm diameter. Homogenization and lysis of variety of samples.

cat. no.	size
E0354–01	50 g

Mini Glass Beads are used to homogenize soft animal tissues, bacterial or yeast pellets, cell cultures or environmental samples, food, veterinary and forensic samples. Glass beads are washed with chlorine, rinsed with water and dried. Mini Glass beads are available in 50 g bottles for ease of use in 2 ml vials for beat beating technology, vortex, mortar and pestle or any other homogenization technique. Fragmentation of the material is achieved in a process of shaking/vortexing of the tube with high speed. In most cases, homogenization is carried out in 350-1000 µl of suitable lysis solution.

Mini Glass Beads are perfect to use in beat beater homogenizers or vortex with adapters for eppendorf tubes. Glass beads submerged in lysis buffer enables the efficient extraction of nucleic acids and proteins from different samples: bacteria, fungi, soil, stool, tissues and food samples. Regular shape of the beads minimizes molecules degradation while rapid shaking. Beat beating with mini glass beads is very efficient in 250-1000 µl lysis buffer e.g. **Lyse All**, **LG**, **Lyse T**, **Lyse C**, **Lyse S**, **Lyse BN**, **Lyse BG**, **GeDI**. The admixture of Mini Glass Beads into mortar enables grinding the samples.

Exemplary protocol:

(1) Pour 0.5 g of Mini Glass Beads into 2 ml tube with cap and sealing ring. Add an appropriate portion of the sample. Place the tube in the vortex and shake for 10 min at maximum speed. For tube shaking, specialized bead beater/cell disrupter instruments (e.g. FastPrep, Precel-lys, Diruptor Genie, etc.) can be used to achieve greater efficiency in DNA isolation. The use of the device involves the need to optimize the shaking time (shorten the time) to avoid fragmentation of the DNA. The grinding time depends on the type of sample and the expected effects.

(2) After homogenization step, in case of high foaming, the sample should be centrifuged at 8000 x g for 30 sec. Transfer appropriate volume of supernatant depending on the protocol used.

(3) Continue the desired protocol.

Mini Glass Beads can be used at the sample homogenization stage with the following EURx GeneMatrix DNA/RNA purification kits: **Universal RNA** (E3598), **Universal RNA/miRNA** (E3599), **RNA/DNA Extracol** (E3750), **Universal DNA/RNA/Protein** (E3597), **Tissue DNA** (E3550), **Tissue&Bacterial DNA** (E3551), **Bacterial&Yeast Genomic DNA** (E3580), **Plant&Fungi DNA** (E3595), **Food Extract DNA** (E3525) and with universal reagent for genomic DNA isolation **GeDI** (E3760, E3765).

Storage:

Mini Glass Beads should be stored at room temperature.

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