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Because Quality Matters

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GlasPac™ QuicKits™ for Isolating DNA from Gels and Solutions

GlasPac/GS™ QuicKits™ are offered in response to scientists who primarily extract DNA from agarose gels or solutions. GlasPac/GS QuicKits provide a fast, simple and economical system for extraction, purification, and concentration of ds/ss DNA (10 base pairs to 20,000bp) from TAE or TBE agarose gels and from all enzymatic reaction solutions. GlasPac/GS QuicKits utilize GlasPac, our high-binding glass suspension, and two reagents to purify nucleic acids from proteins, enzymes, unincorporated radionucleotides, with ethidium bromide or solvents. GlasPac has a binding capacity of 1µg of DNA per 1µl of GlasPac, and can be eluted in a volume as small as 5µl. Recoveries range from 70% to 90% from agarose gels, and virtually 100% from solutions. Each GlasPac purification provides an excellent substrate for restriction enzyme digestions, ligations, transformations, sequencing and amplification procedures.

Certificate of Analysis

This certifies that GlasPac™ QK-GLAS binding matrix, Lot # NSS-AOO2GP, isolates DNA as stated above. Random samples were tested using the following DNA isolation method:

- 1) 30µl of QuicKit #4 Salt, 8µl of DEPC H₂O, 3µl of GlasPac prepared binding matrix, and 1µl of Gibco 123bp ladder, was added to microcentrifuge tube #1.
- 2) 30µl of QuicKit #4 Salt, 8µl of DEPC H₂O, 3µl of GlasPac prepared binding matrix, and 1µl of Promega Hind III, was added to microcentrifuge tube #2.
- 3) 30µl of QuicKit #4 Salt, 8µl of DEPC H₂O, 3µl of GlasPac prepared binding matrix, and 1µl of Gibco DNA mass ladder, was added to microcentrifuge tube #3.
- 4) Each tube was vortexed, and then incubated at room temperature for 10 minutes.
- 5) Each tube was then centrifuged for 30 seconds, and the supernatant was aspirated.
- 6) 150µl of QuicKit #5 Wash preparation (to 60ml of #5 Wash, add 135ml of H₂O and 205ml of Ethanol) was added to each microcentrifuge tube.
- 7) Each tube was vortexed, then centrifuged for 30 seconds. The supernatant was aspirated.
- 8) Steps 6 and 7 were repeated.
- 9) The GlasPac pellet was resuspended in 12µl of DEPC H₂O to elute DNA.
- 10) Each microcentrifuge tube was vortexed, and incubated at 37°C
- 11) The tubes were then centrifuged for 30 seconds.
- 12) 9µl of the eluted DNA was transferred to a new tube, and 1µl of running dye was added.
- 13) Each sample of this solution was pipeted into an individual well of an agarose gel.
- 14) The gel was run, and then visually evaluated as described below:

Controls were run on columns 1, 2, and 3 in a 1.5% ME agarose gel. Column 1 contains 1µl of Gibco 123bp ladder, column 2 contains 1µl of Promega Hind III, and column 3 contains 1µl of Gibco DNA mass ladder.

Elution samples were run on Columns 4, 5 and 6 in the same 1.5% ME agarose gel. Column 4 contains the eluted DNA from tube #1, column 5 contains the eluted DNA from tube #2, and column 6 contains the eluted DNA from tube #3.

