

BioPak® QuicKit™ Protocol

How to Use Violet BioPak® MicroColumns™ Filled with GlasPac™ Resin for High Throughput Purification

Target dsDNA from various sources such as:

Alkaline Lysis Procedures

TE, TBE, or TAE Buffers

Agarose Gel Slices

Enzymatic Reactions

Bacterial Lysates

Amplification Reactions

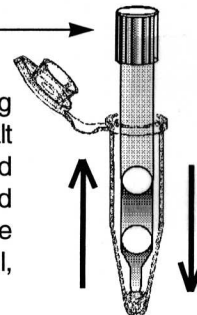
Prepare DNA for Binding

Add DNA sample to **#4 Salt concentrate** in a microcentrifuge tube or microtiter plate well. Depending on the sample size, either add 150 μ l of **#4 Salt concentrate**, or add **#4 Salt concentrate** (in a 3:1 volume ratio) to sample, per detailed protocol **#1a**.



Bind DNA Target Molecule to GlasPac Resin in MicroColumn

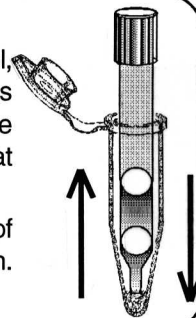
Using a single or multi-channel pipetting device, draw up 200 μ l of the DNA/**#4 Salt** solution into a BioPak MicroColumn. Bind DNA to resin simply by pipetting up and down at least 3x. Dispense and save sample solution in a clean tube or well, per detailed protocol **#1b**, **#1c** & \checkmark 's.



Wash GlasPac Resin in MicroColumn

Prepare a **Final Wash solution** by adding 102mL of ethanol, and 68mL of ddH₂O, to 30mL of **#5 Wash concentrate**, as indicated in protocol. Pipette 200 μ l of this solution into the same BioPak MicroColumn. Dispense and discard. Repeat this process 1x, per detailed protocol **#2a**.

To remove any residual **Final Wash solution**, pipet 200 μ l of 75% ethanol:ddH₂O into the same BioPak MicroColumn. Dispense and discard, per detailed protocol **#2b**.



Aspirate Final Wash Solution

Aspirate any remaining **Final Wash solution** by applying vacuum to the individual BioPak MicroColumn, or to the underside of the BioPak VacRack (with baseplate removed) to dry up to 96 columns at once, per detailed protocol **#2c**.

Elute Purified DNA Target Molecule

Elute DNA with 60 μ l ddH₂O, by pipetting up and down several times, with the same BioPak MicroColumn, into either a clean microcentrifuge tube or microtiter plate well, per detailed protocol **#3a**, **#3b**, **#3c** & \checkmark 's.

BioPak GlasPac resin-filled MicroColumns provide a quick and cost effective method for purifying DNA. Applications include purifying PCR products from amplification reactions, cleaning-up DNA from enzymatic reactions, extracting DNA from agarose gels, capturing DNA from Tris buffers, isolating DNA from alkaline lysis procedures, and purifying plasmid DNA from bacterial lysates. Utilizing BioPak/M Micro-Columns for manual single and multi-channel pipettors, or BioPak/B for Beckman Automated Workstations, the procedure can be scaled up or down to accommodate individual requirements. BioPak purified DNA can be used for various techniques including cloning, direct sequencing reactions, amplifications, gel electrophoresis, HPLC, and mass spectrometry. Patent 5,395,521.

To order BioPak/M for manual pipettors, or BioPak/B for Beckman Automated Work Stations, contact us at:

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