



PERFORMA[®] Spin Columns

Product	Catalog #	Purifications
Performa Spin Columns (36 cartridges)	73328	36
Performa Spin Columns (108 cartridges)	13266	108

Description

Performa Spin Columns are 0.8-ml capacity spin columns packed with a gel matrix optimized to effectively remove salts, amino acids, nucleotides, traces of solvents, and other low molecular weight materials from biological samples. Best results are obtained when using reaction volumes of 10-100 μ l.

Components	73328	13266
Performa Gel Filtration Cartridges	36 carts. (PN 4050167)	108 carts. (3 x PN 4050167)
1.5-ml Microcentrifuge Tubes	36 tubes (PN 4050090)	108 tubes (PN 4050087)

Equipment and Materials Required

- Variable speed centrifuge (benchtop or floor model) capable of 850 x g.
- Carriers for microcentrifuge tubes.

Storage Condition

Store at +4°C. Do not freeze.

Quality Control

Tested for double-stranded DNA recovery.

Recommended Protocol

- Centrifuge the Performa Gel Filtration Cartridge.**
 - For 10-20 μ l volumes, spin 3 minutes at 850 x g.
 - For 20-100 μ l volumes, spin 2 minutes at 750 x g.
 - See "Notes" for determination of RPM from RCF or visit our website at www.edgebio.com and click on Technical Support.
- Transfer the cartridge to the provided 1.5-ml microcentrifuge tube.**
- Add the sample drop-wise to the center of the packed column. Be sure the fluid runs into the gel.**
- Close the cap and centrifuge. Retain eluate.**
 - For 10-20 μ l volumes, spin 3 minutes at 850 x g.
 - For 20-100 μ l volumes, spin 2 minutes at 750 x g.
 - Volume will increase 5-8 μ l¹.

Notes

- If concentration is more important than total yield, increase pre-spin to 3 minutes at 750 x g and elute 2 minutes at 750 x g. Volumes will be slightly less than load volume with approximately 90% yield.
- Conversion of RCF to RPM:
An accurate determination of the centrifugation speed is very important. The relative centrifugal force (RCF) specified in the protocol is converted to revolutions per minute (RPM) using the following formula:

$$RPM = 1000 \sqrt{\frac{RCF}{1.12 r}}$$

The radius, r, is equal to the distance in millimeters between the axis of rotation and the bottom of the gel bed.

To achieve RCF = 750 x g:

$$RPM = 25,877 \sqrt{\frac{1}{r}}$$

To achieve RCF = 850 x g:

$$RPM = 27,549 \sqrt{\frac{1}{r}}$$

Warning: This product is intended for **research use only**. It is not to be used for diagnostic purposes in humans or animals.