

NucAway™ Spin Columns

Store at room temperature.

Catalog # (P/N):	AM10070
Product Description:	Spin Columns, Collection Tubes and Elution Tubes
Amount:	30 each
Storage Conditions:	Store at room temperature.

USER INFORMATION

General Information: Ambion® nuclease-free NucAway™ Spin Columns provide an excellent tool for recovery of DNA and RNA fragments while removing salts and unincorporated nucleotides. NucAway Spin Columns eliminate hazardous phenol:chloroform extractions, ethanol precipitations, and dialysis. The columns are ideal for removal of free and labeled dNTPs or decamers from PCR nick translation, random primer-labeling, end-labeling, and in vitro transcription reactions. NucAway Spin Columns do not effectively recover oligonucleotides smaller than ~20 nt.

Applications:

Procedure Notes

- Maximum yield and efficiency are obtained with horizontal or swinging-bucket type rotors. However, fixed-angle-rotor microcentrifuges provide acceptable performance and save time.
- On a variable speed microcentrifuge, **do not** use the pulse button, which overrides the speed setting and takes the rotor to maximum speed.

Procedure

1. Tap the column to settle the dry gel in the bottom of the spin column.
2. Hydrate the column with 650 µL of RNase-free water or the buffer of your choice (typically the same buffer as used in the samples). Cap, vortex, tap out air bubbles, and hydrate at room temperature 5–15 min.
3. (Optional) Once rehydrated, these columns can be stored at 4°C for up to 3 days.
4. Place the NucAway Spin Column in a 2 mL Collection Tube and spin the column at 750 x g for 2 min to remove excess interstitial fluid, keeping track of the orientation of the column in the rotor.
5. Discard the Collection Tube and immediately apply the sample (20–100 µL) to the center of the gel bed at the top of the column.
Note: Do not disturb the gel surface or contact the sides of the column with the pipet tip or reaction mixture.
6. Place the NucAway Spin Column in the 1.5 mL Elution Tube and place in the rotor, maintaining orientation.
7. Spin the NucAway Spin Column in the tube at 750 x g for 2 min. Your sample will be in the Elution Tube.
8. Discard the NucAway Spin Column and continue with your procedure.

QUALITY CONTROL

Nonspecific Endonuclease Activity:	A sample is incubated for 14–16 hr with supercoiled plasmid DNA and analyzed by agarose gel electrophoresis.
Exonuclease Activity:	A sample is incubated for 14–16 hr with labeled double-stranded DNA, followed by PAGE analysis.
RNase Activity:	A sample is incubated for 14–16 hr with labeled RNA, followed by PAGE analysis.
Protease Activity:	A sample is incubated for 14–16 hr with protease substrate and analyzed by fluorescence.
Functional Testing:	NucAway Spin Columns are tested functionally for removal of unincorporated nucleotides.

OTHER INFORMATION

Material Safety Data Sheets: Material Safety Data Sheets (MSDSs) can be printed or downloaded from product-specific links on our website at the following address: www.ambion.com/techlib/msds. Alternatively, e-mail your request to MSDS_Inquiry_CCRM@appliedbiosystems.com. Specify the catalog or part number(s) of the product(s), and we will e-mail the associated MSDSs unless you specify a preference for fax delivery. For customers without access to the internet or fax, our technical service department can fulfill MSDS requests placed by telephone or postal mail. (Requests for postal delivery require 1–2 weeks for processing.)

Warranty and Liability:

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