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A Geno Technology, Inc. (USA) brand name

Spin-*OUT* ™ *for PCR*

INTRODUCTION

Spin-*OUT*™ columns are used for the rapid purification and buffer exchange of protein and/or nucleic acid samples**.** Simply apply the samples on top of the column and spin briefly to collect clean samples. These columns are suitable for removing salt, unincorporated radioisotopes, dye, primer, dNTP mix, and buffer exchange. The Spin-*OUT*™ columns are for processing up to 0.1 ml samples.

Spin-*OUT*™-PCR is for cleaning PCR products as detailed under:

I. Spin-*OUT*™-PCR20 is for purifying PCR products from <20bp primers, dyes, unincorporated nucleotides, and salts.
II. Spin-*OUT*™-PCR32 is for purifying PCR products from <32bp primers, dyes, unincorporated nucleotides, and salts.

This instruction sheet covers the following columns:

Spin-*OUT*™-PCR20 – ***Micro columns only***	**Spin-*OUT*™-PCR32** – ***Micro columns only***
Cat. # 786-174 (*Color Code-Green*)	Cat. #786-175 (*Color Code-Black*)
Removes <20bp primers	Removes <32bp primers

ITEM(S) SUPPLIED

- Regular size Spin-*OUT*™ PCR20 (Cat# 786-174) and PCR32 (Cat# 786-175) is supplied with 10 Micro columns only.

ADDITIONAL ITEMS NEEDED

Collection tubes

STORAGE CONDITIONS

It is shipped at ambient temperature. Upon arrival, store at 4°C. When stored and used properly, the columns are good for 1 year.

INSTRUCTIONS FOR USE

1. Invert the column several times to re-suspend the gel material. Spin the column for 10 seconds at 100 x g to allow the gel to collect in the column -DO NOT SPIN IT TOO HARD.

2. Remove the tip of the column and let the liquid drain into a collection tube.

3. Buffer Equilibration**:** Spin-*OUT*™ PCR columns are in 20% ethanol. Equilibrate the column with a buffer of your choice.

4. Apply about 0.1-0.2ml of desired buffer into the columns and let the buffer drain into the collection tube. Repeat this process 3 times, and discard the liquid collected in the collection tube.

5. Place the column in a 2ml centrifuge tube. Centrifuge at 1000xg for 2 minute, and discard the liquid collected in the centrifuge tube.

6. Place the column back in the same centrifuge tube. Carefully apply sample (20-100µl) to the center of the column without disturbing the resin bed. Wait for 1-2 minutes.
   NOTE: *The maximum volume you should load is 0.1ml.*

7. After loading the column, place the column in a new and clean collection tube and centrifuge at 1000xg for 2

minutes. Collect the liquid containing purified sample.

8. Discard used column.

RELATED PRODUCTS

1. Detergent-OUT™: *For the removal of SDS, Triton-X100 and other detergents from protein solutions.*
2. Non-Interfering Protein Assay™: *A protein assay that is not affected by the presence of common laboratory agents such as detergents, reducing agents, EDTA, dyes.*
3. Tube-O-DIALYZER™: *For dialysis of small samples.*

NOTE: *For other related products, visit our web site at www.GBiosciences.com or contact us.*

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