Spin-*OUT* ™

GT-600 / GT-1200 / PCR F-100.20 / PCR F-200.32

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 supplied in **Micro** size for processing up to 0.1 ml samples, and **Medi** size for processing up to 0.5ml samples.

Spin-*OUT*™ GT-600 - Equivalent to G-25 and is suitable for the purification of proteins > 6,000 molecular weight, and nucleic acids or oligonucleotides larger than 10bp.

Spin-*OUT*™ GT-1200 - Equivalent to G-50 and is suitable for the purification of proteins > 12,000 molecular weight, and nucleic acids or oligonucleotides larger than 20bp.

Spin-*OUT*™-PCR is for cleaning PCR products.

I. Spin-*OUT*™-PCR F-100.20 (Cat#: 786-174) is for purifying PCR products from <20bp primers, dyes, unincorporated nucleotides, and salts.

II. Spin-*OUT*™-PCR F-200.32 (Cat#: 786-175) is for purifying PCR products from <32bp primers, dyes, unincorporated nucleotides, and salts.

This instruction sheet covers the following columns

Spin-*OUT*™ GT-600 (*Color Code-Red*) ***Micro*** Cat. #786-170 Excludes > 6,000 Molecular weight molecules ***Medi*** Cat. #786-171 Excludes > 6,000 Molecular weight molecules	**Spin-*OUT*™ GT-1200** (*Color Code-Blue*) ***Micro*** Cat. #786-172 Excludes > 12,000 Molecular weight molecules ***Medi*** Cat. #786-173 Excludes > 12,000 Molecular weight molecules
Spin-*OUT*™-PCR F-100.20 Cat. # 786-174 (*Color Code-Green*) Removes < 20bp primers	**Spin-*OUT*™-PCR F-200.32** Cat. #786-175 (*Color Code-Black*) Removes< 32bp primers

ITEM INCLUDED

Spin-*OUT*™ GT-600 / GT-1200 are supplied with either 10 Micro or 10 Medi columns, while **Spin-*OUT*™ PCR** F-100.20 / F-200.32 are supplied with 10 mini columns only.

ADDITIONAL ITEMS NEEDED

Collection tubes

STORAGE CONDITION

Shipped at ambient temperature. Upon arrival, store at 4^0C. 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 100xg 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*™ GT-600** and **GT-1200** columns are supplied in de-ionized water containing a preservative, while **Spin-*OUT*™ PCR** columns are in 20% ethanol. Equilibrate the column with a buffer of your choice.

4. Apply about 0.1-0.2 ml of desired buffer into the Micro columns and 0.5-1ml buffer into the Medi 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 centrifuge tube - for Micro use a 2.0ml micro centrifuge collection tube & for Medi use a 15ml centrifuge collection tube. Centrifuge at 1000xg for 2 minute, and discard the liquid collected in the centrifuge tube.

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.

After loading the column, place the column in a new and clean collection tube and centrifuge at 1000x g for 4 minute. Collect the liquid containing purified sample.

6. Discard used column.

NOTE:
For Micro, the maximum volume you should load is 0.1ml.
For Medi, the maximum volume you should load is 0.5ml.
A volume, less than 20µl may affect the recovery.

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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