

G-50 Mini Column

For research use only

Storage	: 2-8°C for up to 6 months (Do not freeze)
Sample	: 20 to 50 µl
Format	: spin column
Filtrate	: >20 bases

Geneaid



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Introduction

G-50 Mini Columns consist of prepacked Sephadax G-50 pre-hydrated with double-distilled water and are ideal for removing excess dye terminator, freeing nucleotides from sequencing and labeling reactions, desalting and buffer exchange. G-50 Mini Columns can purify DNA fragments larger than 20 bases in length with low molecular weight material retained in the gel matrix of the column. Since G-50 Mini Columns are designed to purify DNA fragments >20 bases only, they are not recommended for PCR product primer removal.

Quality Control

The quality of the G-50 Mini Column is tested on a lot-to-lot basis. The purified DNA is checked by electrophoresis.

Kit Contents

Name	CG002	CG050
G-50 Mini Column	2 pcs	50 pcs
2 ml Collection Tube	2 pcs	50 pcs

Order Information

Product Name	Package Size	Cat. No.
RNA Pure Kit	100/300 preps	PR100/300
DNA Pure Kit	100/300 preps	DP100/300
G-25 Mini Column	50 preps	CG025
G-50 Mini Column	50 preps	CG050
96-Well G-50 Plate	4/10 x 96 Wells	CGP04/10

Purification/Desalting Protocol

Step 1	<ul style="list-style-type: none">Place a G-50 Mini Column in a 2 ml Collection Tube.Centrifuge at 750 x g for 2 minutes.
Step 2	<ul style="list-style-type: none">Transfer the G-50 Mini Column to a 1.5 ml microcentrifuge tube.Carefully load the sample (20-50 µl) onto the center of the gel bed surface.
Step 3	<ul style="list-style-type: none">Centrifuge again at 750 x g for 3 minutes. The purified sample can be recovered at the bottom of the 1.5 ml microcentrifuge tube (approximately the same volume as the loaded sample).

Buffer Exchange Protocol

Step 1	<ul style="list-style-type: none">Place a G-50 Mini Column in a 2 ml Collection Tube.Centrifuge at 1,000 x g for 3 minutes.
Step 2	<ul style="list-style-type: none">Discard the flow-through in the 2 ml Collection Tube and place the G-50 Mini Column back in the same 2 ml Collection Tube.
Step 3	<ul style="list-style-type: none">Add 350 µl of desired buffer to the G-50 Mini Column.Centrifuge at 750 x g for 2 minutes.
Step 4	<ul style="list-style-type: none">Transfer the G-50 Mini Column to a 1.5 ml microcentrifuge tube.Carefully load the sample (20-50 µl) onto the center of the gel bed surface.
Step 5	<ul style="list-style-type: none">Centrifuge again at 750 x g for 3 minutes.The purified sample can be recovered at the bottom of the 1.5 ml microcentrifuge tube (approximately the same volume as the loaded sample).

Troubleshooting

Problem	Possible Reasons/Solution
Gel	<ul style="list-style-type: none">In the event of gel drying/cracking add 300 µl of ddH₂O to the column before use.During shipment, the gel in the G-25 Mini Column may be lodged in the cap. This will not affect the quality or the efficiency of the column.