

# 96-Well G-50 Plate

*For research use only*

<b>Storage</b>	: 2-8°C for up to 6 months (Do not freeze)
<b>Volume</b>	: 20 to 50 µl
<b>Format</b>	: 96-Well

**Geneaid**



CERTIFICATE NO. QAIC/TW/50077

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## Introduction

96-Well G-50 Plates consist of pre-packed Sephadax G-50, pre-hydrated with double-distilled water. The plates can be used for removing excess dye terminator, free nucleotides from sequencing and labeling reactions, desalting and buffer exchange. G-50 Plates can purify DNA fragments larger than 20 bases in length with low molecular weight material retained in the gel matrix. Since G-50 Plates are designed to purify DNA fragments >20 bases only, they are not recommended for PCR product primer removal.

## Purification/Desalting Protocol

Step 1	<ul style="list-style-type: none"><li>● Remove the adhesive film from the 96-Well G-50 Plate.</li><li>● Place the G-50 Plate on a 2 ml collection plate.</li><li>● Centrifuge at 2,500 x g for 5 minutes.</li></ul>
Step 2	<ul style="list-style-type: none"><li>● Transfer the G-50 Plate to a 0.35 ml collection plate.</li><li>● Carefully load the sample (20-50 µl) onto the center of each gel bed surface.</li></ul>
Step 3	<ul style="list-style-type: none"><li>● Centrifuge again at 2,500 x g for 5 minutes.</li><li>● Each purified sample can be recovered at the bottom of the 0.35 ml collection plate (approximately the same volume as the loaded sample).</li></ul>

## Buffer Exchange Protocol

Step 1	<ul style="list-style-type: none"><li>● Remove the adhesive film from the 96-Well G-50 Plate.</li><li>● Place the G-50 Plate on a 2 ml collection plate and centrifuge at 2,500 x g for 5 minutes.</li></ul>
Step 2	<ul style="list-style-type: none"><li>● Discard the flow through in the 2 ml collection plate and place the G-50 plate back on the same 2 ml collection plate.</li></ul>
Step 3	<ul style="list-style-type: none"><li>● Add 350 µl of desired buffer to each well of the G-50 Plate.</li><li>● Centrifuge at 2,500 x g for 5 minutes.</li></ul>
Step 4	<ul style="list-style-type: none"><li>● Transfer the G-50 Plate to a 0.35 ml collection plate.</li><li>● Carefully load the sample (20-50 µl) onto the center of each gel bed surface.</li></ul>
Step 5	<ul style="list-style-type: none"><li>● Centrifuge again at 2,500 x g for 5 minutes. The purified sample can be recovered at the bottom of the 0.35 ml collection plate (approximately the same volume as the loaded sample).</li></ul>

## Troubleshooting

Problem	Possible Reasons/Solution
Gel Drying	<ul style="list-style-type: none"><li>● Add 50-100 µl of ddH<sub>2</sub>O to each well of the G-50 Plate before use.</li></ul>