

Introduction

Spectra/Gel® Absorbent makes the concentration of proteins and macromolecules in dialysis samples quick and efficient.

Spectra/Gel® Absorbent is a high molecular weight polymer that absorbs (complexes) with water. It is not soluble in water and it can absorb up to 300 times its weight in water and can be used with any molecular-weight-cut-off (MWCO) dialysis membrane without contaminating the sample.

After dialysis, remove the dialysis tubing containing the sample and coat it with Spectra/Gel®. Water and smaller molecules diffuse through the membrane and are absorbed by Spectra/Gel® Absorbent. The insoluble characteristic of Spectra/Gel® makes it easy to brush off as a solid gel without adhering to membrane.

Spectra/Gel® can be used with any of our dialysis tubing and ready-to-use Float-A-Lyzer® G2 products.

Instructions for Individual Samples

1. Pour 10 grams of the Spectra/Gel® Absorbent onto a rectangular piece of aluminum foil.
2. Place dialysis tubing or device containing sample to be concentrated on the powder.
3. Using spatula, completely cover the surface of the tubing with Spectra/Gel®.
4. Fold the foil over the membrane tubing to cover it and form a foil pouch.
5. Check progress of concentration every 15-20 minutes.
6. When concentration complete, wipe the Spectra/Gel® from the outside of the tubing.
7. Carefully recover sample with pipette or pour into clean container.

Instructions for Multiple Samples (5 or more)

1. Thoroughly mix 4 grams of the Spectra/Gel® Absorbent with 1 liter of water in a narrow reservoir until the entire mixture is gelatinous and there is no dry powder remaining.
2. Make sure closures on dialysis tubing and/or caps on dialysis devices are secure.
3. Submerge the tubing and/or devices in the gelatinous mixture leaving the top closure and/or top piece of the device exposed.



4. Check progress of concentration every 30-60 minutes.
5. When concentration is complete, remove samples from Spectra/Gel® and wipe or rinse away remaining gel on the outside of the dialysis tubing or device.
6. Carefully recover sample with pipette or pour into clean container.

Caution: Spectra/Gel® will remove water from the tubing until the tubing is completely dry. So check progress often to ensure not over concentrating!

Storage

Store closed container at room temperature.

Ordering Information

Part No	Description
292600	Spectra/Gel® Absorbent, 500g



THE AMERICAS

Spectrum Laboratories, Inc.

mail 18617 Broadwick Street
Rancho Dominguez, CA 90220
USA

voice 310-885-4600 • 800-634-3300

fax 310-885-4666 • 800-445-7330

email customerservice@spectrumlabs.com

web www.spectrumlabs.com

EUROPE

Spectrum Europe BV

mail Post Office Box 3262
4800 DG Breda
The Netherlands

voice 00 31 76 571 9419

fax 00 31 76 571 9772

email info@spectrumeurope.nl

web eu.spectrumlabs.com

ASIA

Spectrum Japan

mail 3-12-18, Shimosakamoto
Otsu-City, Shiga
520-0105, Japan

voice 00 81 (0)77 578 0166

fax 00 81 (0)77 578 0166

email spectrum.j@gol.com

web jp.spectrumlabs.com