

## CentriSep™ strips and plates Data sheet:

Cat #	Product
S5300.0020	CentriSep Accessory Kit
S5300.0032	CentriSep Dye Terminator Removal Kit <b>pack of 32 columns</b>
S5300.0100	CentriSep Dye Terminator Removal Kit <b>pack of 100 columns</b>
S5300.0128	CentriSep 8 strips Dye Terminator strips. <b>12 x 8 strips in 96 well plate format.</b>
S5303.0296	CentriSep 96 Multi-well Filter Plates for "High Throughput" removal ( <b>2 plates</b> )
S5303.5096	CentriSep 96 Multi-well Filter Plates for "High Throughput" removal ( <b>50 plates</b> )

### The CentriSep strips and plates are specially designed for the following applications:

- Purification of fluorescent reaction mixtures, as in DNA sequencing with the ABI 373A and 377A
- Removal of free and labelled dNTP's from DNA/RNA as in:
  - nick translation
  - end-labeling reactions
  - polymerisation reactions
- Desalting, removal of traces of phenol or exchange of buffer salts, as in multiple restriction digestions
- Purification/desalting of proteins (These columns are far superior – in ease of use, speed, and non-toxicity – to such common techniques as phenol/chloroform extractions and ethanol precipitations).

### Benefits of the CentriSep strips and plates:

- Rapid and efficient separations
- Buffer not pre-selected
- Pre-wetted ready-to-use gel matrix
- Convenient 20 – 40 µl sample size

### Centrifugation Notes:

Maximum yield and efficiency are obtained with the horizontal or swinging-bucket rotors. However, fixed-angle-rotor microcentrifuges provide acceptable performance and save time.

On a variable speed microcentrifuge, DO NOT use the pulse button, which overrides the speed setting and takes the rotor to maximum g-force. If you are not sure of the g-force generated by your centrifuge at specific speeds, calculate the correct speed by using the following formula:

$$\text{rpm} = \sqrt{\text{RCF} / (1.119 \times 10^{-5}) r(\text{cm})}$$

Where: rpm = revolutions per minute  
RCF = Relative Centrifugal Force  
r = radius (cm) measured from centre of spindle to bottom of rotor bucket.

**Example:** RCF = 750 and r = 7.5 cm

$$\text{rpm} = \sqrt{750 / (1.119 \times 10^{-5}) (7.5)} = 2990$$

**Quality Control:** Every batch of CentriSep columns is tested for separation efficiency and fill accuracy.

### Material provided:

- CentriSep strips (S5300.0128) or micro-titer plates (S5303) containing hydrated matrix, ready-to-use for sample application. Strips and plates are compatible with standard 96-well plates and multi-channel pipettors.

### Additional Materials Recommended

- Microcentrifuge (variable speed)
- Variable pipets
- Vortex mixer
- 8-well PCR strips or 96 deep-well plates (500-800 µl well volume)

### Common Problems

1. Touching the inner side of the column during sample application.

### Solutions

1. Load the sample directly into the centre of the gel bed and do not touch the sample to the walls of the columns

### Reference:

Sambrook, J., Fritsch, E.F., and Maniatis, T., Molecular Cloning: A Laboratory Manual, Cold Spring Harbor Laboratory, 1989.