

CentriSep™ 96 plate Data sheet:

Cat #	Product
S5303.5096	CentriSep 96 well plates
S5300.0032	CentriSep Dye Terminator Removal Kit pack of 32 columns
S5300.0100	CentriSep Dye Terminator Removal Kit pack of 100 columns

The CentriSep 96 well 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-labelling 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).

CentriSep 96 plates are pre-packed with hydrated, cross-linked gel suitable for removing excess terminators and nucleotides. The plates are sealed top and bottom with an adhesive foil seal to prevent drying of the gel beds.

Purified reaction products from CentriSep 96 plates are collected into a standard 96 well PCR plate. The purified reaction mixtures are suitable for sequencing on an automated DNA sequencer.

Subsequent drying and denaturing steps may be accomplished in a Speed Vac.

Benefits of the CentriSep plates:

- Rapid and efficient separations
- Buffer not pre-selected
- Columns stable at room temperature
- Convenient 20µL or less sample size

Centrifugation Notes:

Maximum yield and efficiency are obtained with the horizontal or swinging-bucket rotors.

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 96 well plates (50 hydrated plates)

Additional Materials Recommended

- 2 reuseable deep 96-well wash plates.
- 96-well collection plates
- Thermal seal films
- Microcentrifuge (variable speed) capable of handling stacked plates (5.1cm height) at 1500xg. Plates can also be centrifuged in vacuum concentrators such as Savant Speed Vac rotors like DSR6, MPTR-8-210, PRO System&Genevac EZ-2 rotor.
- Multichannel pipettor or variable pipets

Reference:

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