CentriPure™ 96 well
Data sheet for 800µL plates

Cat #	Product
CP-0101-Z025	25 CentriPure96 well plates
CP-0101-Z050	50 CentriPure96 well plates

Introduction
The CentriPure 96 plates are specially designed for removing excess dye terminator and nucleotides from Dye Terminator sequencing reaction mixtures. CentriPure 96 is precision filled with Zetadex-50, a cross-linked, beaded, composite dextran gel. Zetadex-50 is hydradet with sterile, pure water without the use of any preservatives, salts or buffers.

The procedure consists of removing the interstitial fluid from the CentrPure 96 plate by spinning in a centrifuge equipped to handle deep well plates. The samples are applied to the individual wells and the plate is spun again to collect the purified product in a 96 well plate. Products may be collected into standard 96-well format collection plates (not supplied) for subsequent concentration and denaturing steps.

CentriPure 96 consist of a 96-well filtration plate made from sterile medical-grade polypropylene. Each well has a total volume of 800µL and a total hydrated gel bed volume of around 400µL. Each gel bed is supported on an individual ultra high molecular weight PE filter membrane with pore size of 25 microns. The plates are sealed top and bottom to minimize drying.

Manual Sample Application
CentriPure 96 plates are manufactured using precision filling equipment. This method ensures the extremely uniform gel bed heights required for robotic sample application. Since many users will be loading samples with multi-channel pipettors rather than robots, the following practices should be followed:

Sample should be loaded onto the centers of the matrix beds, without touching the pipette tips to the beds.

Allow the sample to “touch-off” onto the gel rather than “blowing.out” the pipette tips.

Place the forefinger of your non-pipetting hand alongside the plate row t which the samples are to be applied. Rest the pipette tips on this finger as they are being guided to the center of the gel beds.

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:

$$\mathbf{rpm = \sqrt{RCF / (1.119x10^{-5})\ r(cm)}}$$

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

$$\mathbf{rpm = \sqrt{750 / (1.119x10^{-5})\ (7.5)} = 2990}$$

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

Material provided:

- CentriPure 96 plates (hydrated plates with 800µL well / 400µL bed volume).

Additional Materials Recommended

- Reusable 96-well wash plates
- 96-well collection plates
- Sealing film (optional)
- Centrifuge (variable speed) with rotor and carriers capable of handling stacked plates (5.1 cm height)
- Multichannel pipettor or variable pipets

Storage and Stability:

- The CentrPure 96 plates are stable until the indicated expiration date when stored at +2°C to +8°C.

Reference:

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

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