



User Guide

Centriprep® Centrifugal Filter Devices

Centriprep® 3K and 50K devices for research use only and for use in diagnostic procedures



Introduction

Centriprep® centrifugal filter devices are disposable ultrafiltration devices used for purifying, concentrating, dialyzing, and filtering biological samples in the 0–12 mL volume range. These ready-to-use ultrafiltration devices are designed for operation in both centrifuges that have a maximum 3000 rpm centrifuge speed. They can also be used without a centrifuge. The Centriprep® device consists of a sample reservoir with a built-in cup, a filter collector containing a fine ultrafilter (Ultracel®) regenerated cellulose membrane, and an on-rod cap for sample isolation.

The Centriprep® device design allows filtration and fine particle sedimentation to occur at the same time without clogging the membrane. With a Centriprep® 50K device, a 10 mL sample can be concentrated to 0.5 mL in just 20 minutes and concentrations of smaller volume samples may take a high concentration factor and a high recovery of the membrane's flow characteristics, and generate the same recovery of retained macromolecules when compared to both in-vitro and in-vivo procedures that use a membrane with a volume of 0.5–0.8 mL.

The Centriprep® product line includes built-in membrane weight capacity (MWC):

- Centriprep® 3K device — 3000 MWC (3000 membrane support)
- Centriprep® 50K device — 50000 MWC (50000 membrane support)
- Centriprep® 50K device — 50000 MWC (50000 membrane support)
- Centriprep® 50K device — 50000 MWC (50000 membrane support)

NOTE: Centriprep® 3K and 50K devices are the only Centriprep® devices intended for in-vitro diagnostic use. For information on these devices, go to www.millipore.com/centrifugal_filters/centriprep.

Applications

Centriprep® 3K centrifugal filter devices

- Concentrating and dialyzing oligonucleotides, peptides, growth factors, and small proteins

Centriprep® 50K, 30K, and 50K centrifugal filter devices

- Concentrating and dialyzing column fluids and protein buffers containing proteins, enzymes, and antibodies
- Recovering biomolecules from cell culture supernatants, tissues, extracts, or other biological samples
- Purifying low-molecular-weight components (e.g., amino acids) and antibodies from physiological fluids, cell culture media, or fermentation broths

Centriprep® Device Components



Required Equipment

Centriprep® devices require the variable speed centrifuge with either a swinging-bucket or fixed-angle rotor and carrier that can properly accommodate 60 mL centrifuge tubes. The centrifuge must be capable of 1000–3,000 \times g for a listing of compatible centrifuges and rotors, see www.millipore.com/centrifugal_filters.

Limitations

With fixed-angle rotors, polarization control may be adversely affected at low \times g-forces below 1000 \times g. Operating an average centrifuge with a low concentration, filtered flow may be reduced, which may either require additional time and treatment of the filtrate. These limitations may vary by manufacturer. See the manual for details on this device.

Device	Maximum Centrifugal Force
Centriprep® 3K	3,000 \times g
Centriprep® 50K	3,000 \times g

Device Storage and Shelf Life

The best results occur with Centriprep® devices at 15–20 °C. Performance may be adversely affected if the device is stored at extreme temperatures (i.e., below 0 °C or above 40 °C). Shelf life is shown below from date of manufacture.

Rinsing Before Use

The appearance of Centriprep® centrifugal filter devices contain trace amounts of glycerol. If this interferes with analysis, fill the device with approximately 10 mL of distilled or deionized water and centrifuge until the first equilibration point is reached. Remove filtrate and concentrate. Repeat as necessary until no more interference is noted. Once each measurement must be kept well to ensure full recovery.

Membrane and Device Appearance

- Occasionally an unused Centriprep® device may have a few drops of moisture on the filter collector or sample reservoir. This is due to condensation of moisture in the membrane and does not affect performance.
- After centrifugation, a small amount of filter (approximately 0.2 mL) may remain in the trap between the membrane and the membrane support of the Centriprep® device. This is normal and does not affect device operation or performance.
- The Ultracel® membrane used in the Centriprep® centrifugal filter devices may appear slightly wrinkled after spinning.

Centrifugal Filter Device Reset

Centriprep® devices are intended for single-use only. Attempts to clean the device may damage the membrane surface or the seal, possibly compromising the seal integrity and thereby affecting performance.

Principle of Operation

To begin operation, the sample container's built-in cap is loosened and the filter collector is removed. Sample is added, then the filter collector is carefully reinserted back into the sample container following standard aseptic techniques, sealing the device. The assembled centrifugal filter device is centrifuged at 1,000–3,000 \times g, depending on the membrane MWC used.

Inserting the filter collector into the sample reservoir creates a slight hydrostatic pressure differential that exerts an upward buoyancy force on the membrane at the filter collector bottom. By force, the hydrostatic pressure may delay the upward movement in the small reservoir ultrafiltration. Centrifugation overcomes this pressure. During low molecular weight products and solutes through the membrane into the filter collector. Solutes with molecular weights above the membrane MWC remain in the sample container. Centrifugation (centrifugal force) is applied to the sample reservoir. Ultrafiltration occurs in the device against the centrifugal force vector.



The pressure differential created by the added solution level is important to centrifugal filter device operation. During centrifugation, the sample solution reservoir falls as the filter collector rises. In the process, the filter collector loses its buoyancy and settles to the bottom of the sample container, generating maximum filter collector collection. Eventually an equilibrium is reached above the neutral axis at equal heights. Filtration then stops, since the hydrostatic pressure differential is zero.

If further concentration is required, degas the filtrate before spinning the device for a second time. Depending on solubility and pressure differential between the sample reservoir and the filter collector, allowing filtration to resume. Filtration resumes until a new equilibrium point is achieved. Note that the pressure differential is constantly changing during operation at the neutral axis position.

Centriprep® centrifugal filter devices are designed to maintain high flow rates by minimizing volume build-up on the membrane during operation. Centrifugal force continuously maintains contact away from the membrane to the sample reservoir bottom. Because the Centriprep® membrane "floats" above the collection bowl, the full surface of the membrane is used at all times, and flow is unrestricted. This is particularly beneficial when working with suspensions, which can easily clog other membrane.

Millipore Centriplus User Guide

Ying-Ying Zheng



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Comparative Medicine ,2008

The Journal of Immunology ,2003

Clinical and Vaccine Immunology ,2006

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Table of Contents Millipore Centriplus User Guide

1. Understanding the eBook Millipore Centriplus User Guide
 - The Rise of Digital Reading Millipore Centriplus User Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Millipore Centriplus User Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Millipore Centriplus User Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Millipore Centriplus User Guide
 - Personalized Recommendations
 - Millipore Centriplus User Guide User Reviews and Ratings
 - Millipore Centriplus User Guide and Bestseller Lists
5. Accessing Millipore Centriplus User Guide Free and Paid eBooks
 - Millipore Centriplus User Guide Public Domain eBooks
 - Millipore Centriplus User Guide eBook Subscription Services
 - Millipore Centriplus User Guide Budget-Friendly Options
6. Navigating Millipore Centriplus User Guide eBook Formats

- ePub, PDF, MOBI, and More
- Millipore Centriplus User Guide Compatibility with Devices
- Millipore Centriplus User Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Millipore Centriplus User Guide
 - Highlighting and Note-Taking Millipore Centriplus User Guide
 - Interactive Elements Millipore Centriplus User Guide
- 8. Staying Engaged with Millipore Centriplus User Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Millipore Centriplus User Guide
- 9. Balancing eBooks and Physical Books Millipore Centriplus User Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Millipore Centriplus User Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Millipore Centriplus User Guide
 - Setting Reading Goals Millipore Centriplus User Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Millipore Centriplus User Guide
 - Fact-Checking eBook Content of Millipore Centriplus User Guide
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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