#### User Guide

# Amicon® Ultra-0.5 Centrifugal Filter Devices

for volumes up to 500 µL

For research use only; not for use in diagnostic procedures.



#### Introduction

Amicon\* Ultra-0.5 centrifugal filter devices provide fast ultrafiltration, with the capability for high concentration factors and easy concentrate recovery from dilute and complex sample matrices. The vertical design and available membrane surface area provide fast sample processing, high sample recovery (typically greater than 90% of dilute starting solution), and the capability for 30-fold concentration. Typical processing time is 10 to 30 minutes depending on Molecular Weight Out off (MWCO). Solute polarization and subsequent fouling of the membrane are minimized by the vertical design, and a physical deadstop in the filter device prevents spinning to dryness and potential sample loss. Efficient recovery of the concentrated sample (retained species) is achieved by a convenient reverse spin step after collecting the filtrate. Amicon\* Ultra-0.5 devices are supplied non-sterile and are for single use only.

The Amicon\* Ultra-0.5 product line includes 5 different cutoffs (Molecular Weight Cut Off, MWCO). These devices are for research use only and not for use in diagnostic procedures.

- Amicon\* Ultra 3K device 3,000 MWCO.
- Amicon\* Ultra 10K device 10,000 MWCO
- Amicon\* Ultra 30K device 30,000 MWCO
- Amicon\* Ultra 50K device 50,000 MWCO.
- Amicon\* Ultra 100K device 100,000 MWCO

#### Applications

- Concentration of biological samples containing antigens, antibodies, enzymes, nucleic acids (DNA/RNA samples, either singleor double-stranded), microorganisms, column eluates, and purified samples
- Purification of macromolecular components found in tissue culture extracts and cell lysates; removal of primer, linkers, or molecular labels from a reaction mix, and protein removal prior to HPLC
- · Desalting, buffer exchange, or diafiltration

#### Materials Supplied



The Amicon\* Ultra-0.5 device is supplied with two microcentrifuge tubes. During operation, one tube is used to collect filtrate, the other to recover the concentrated sample.

# Plt 5user Guide

**LP Steffe** 



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