



Sample preparation with ease

Amiprox ProtiPrep simplifies and standardizes sample preparation procedures, saving hands-on time while providing higher reproducibility and lower variance.

User Manual

Amiprox ProtiPrep abundant protein depletion device for human plasma / serum samples

Product: AMI001HSA

Description

Analyzing the blood proteome can be difficult due to highly abundant proteins masking the presence of low-abundant proteins. Approximately half of the mass of the serum proteins is made up by only a single protein: the human serum albumin (HSA). Therefore, Amiprox ProtiPrep abundant protein depletion devices are designed for the efficient and fast depletion of human serum albumin (HSA) from serum/plasma samples, to enable the detection of less abundant proteins.

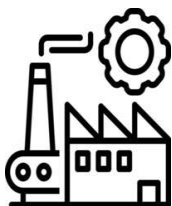
For Research Use Only. Not for use in diagnostic procedures.

Materials within the ProtiPrep

ProtiPreps are pre-packed with the optimum amounts of Cibacron Blue functionalized agarose beads and buffer, to ensure efficient and reproducible sample preparation without the need for special laboratory equipment.

- 100 µL settled bed volume of cytiva Blue Sepharose™ 6 Fast Flow; Ref. 17094801
- 150 µL Life Technol. gibco PBS Buffer (155 mM NaCl, 2.7 mM Na₂HPO₄, 1.5 mM KH₂PO₄); Ref. 70011-044

Social and Green with ProtiPrep



Amiprox products are designed and manufactured in Germany with materials sourced from within the European Union. Amiprox is committed to quality, sustainability and fairness. By using ProtiPrep, 90% less disposable plastic is used compared to conventional sample preparation.

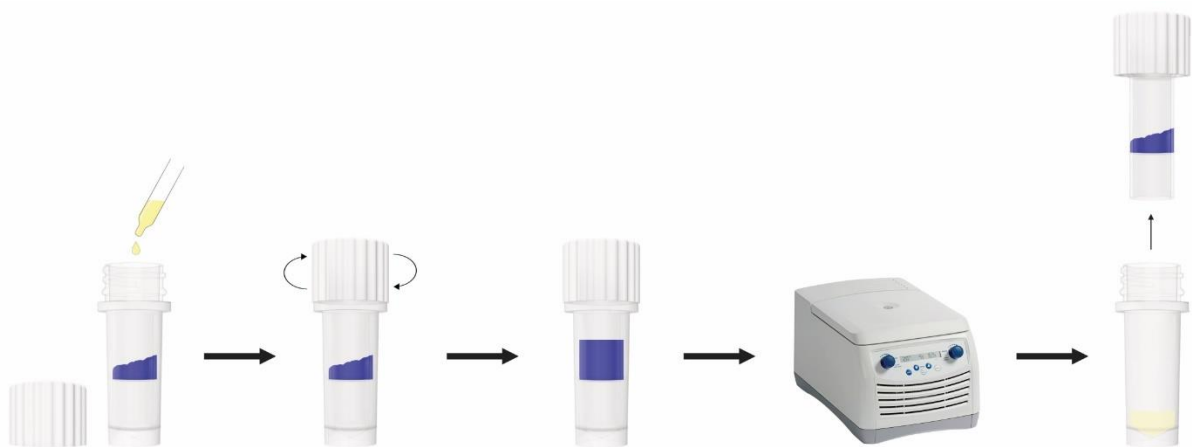
Contents

ProtiPrep spin-columns consist of three components that ensure easy handling: a sample tube, a column and a particularly shaped two-position screw cap. The HSA-depleting resin and PBS buffer are integrated in pre-defined quantities, to ensure minimal variance in sample preparation.



Handling

ProtiPreps simplify sample preparation to the maximum. Simply apply the sample, screw the cap shut, incubate, centrifuge and you're done.



- 1.** Open the screw cap and apply 10 μL of serum or plasma to the cavity.
- 2.** Screw the cap on the tube, shake it twice to let the buffer run onto the resin.
- 3.** Incubate for a minimum of 5 and a maximum of 60 minutes.
- 4.** Centrifuge for 2 minutes at 400 x g.
- 5.** Unscrew. The column is getting removed together with the lid. The HSA-depleted sample remains in the tube.

6. Done.

The prepared sample ($\sim 160 \mu\text{L}$) is in PBS buffer pH 7.4 and ready for analysis or subsequent processing.