NuGel™ BindPro™

Aqueous Protein Crash & Enrichment of Metabolites/Analytes From Serum or Plasma

- Serum and plasma protein removal, >95%
- Ammonium Acetate buffer system, simplifies analyte concentration
- Aqueous Protein Crash, linearly scalable, unlike chemical precipitation or membrane filtration.
- Fast process, less than 30 minutes from application to separation
- Applicable for drug binding/screening, target analytes and metabolomics
- Species agnostic; tested species include human, mouse, sheep, bovine, goat, rat, and calf
- Dry powder format, compatible with high throughput systems such as 96 well plate.
- **NuGel™ BindPro™** supplied as a dry powder reagent; related product - **BindPro™** supplied as a suspension reagent

**BindPro™** is an umbrella trademark for polymeric reagents designed as alternatives to ultra-filtration and solvent precipitation for applications that require protein removal and/or concentration in a more versatile or scalable format. **NuGel™ BindPro™** is engineered onto a bead format, based on passivated porous silica (the **NuGel™** platform) covalently bound to elastomeric poly-electrolytes.

Lane 1: Plasma Control

Lane 2: Plasma after treatment with **BindPro™**. Protein bands are not present indicating quantitative protein binding to the **BindPro™** surface.

Lane 3: Eluent from **BindPro™**. If necessary, proteins bound can be recovered from **BindPro™**.
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PROTOCOL – Based on processing 20-30 µl Serum or Plasma Sample. (Designed to remove 1-2 mg of total protein per prep)

1. Weigh out 50 mg of NuGel™ BindPro™ matrix in a spin-tube.
2. Add 200 µl of Binding Buffer BPMBB. Vortex or mix well for 5 minutes at room temperature followed by centrifugation at 10,000 rpm. Discard the flow through.
3. Add 200 µl Binding Buffer BPMBB and 25 µl of the serum or plasma sample to spin tube. Vortex for 10 min and then centrifuge for 4 minutes at 10,000 rpm.
5. Remove the filtrate as Flow-Through FT.
6. This FT is now ready for further analysis. The supernatant contains analytes with >95% serum protein removal, and is ready for concentration or further analysis.
7. Optionally the pellet can be eluted with 200 µl of stripping buffer (0.2M Tris + 0.5M NaCl, pH 10 by mixing on a shaker for 10 min) and centrifuge for 4 minutes at 10,000 rpm.

References
Lipoproteins

Patent

CONTACT US
We welcome your questions and comments regarding our products.

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