

Protein Removal for Drug Screening & Metabolomics



Use BindPro™ for methods of human plasma biomarker discovery using high-abundance protein depletion techniques.

BindPro can eliminate the artifacts of protein contamination and improve study of amino acids, sugars, lipids, nucleotides, and other biomolecules from biological tissues and fluids.

Method: "To determine if TLR2/6 ligands of *Wolbachia* are lipoproteins, we treated the filarial extracts with Cleanascite™, which selectively removes lipids and lipoproteins, or with BindPro™, a polymeric protein removal suspension reagent (Biotech Support Group). Both treatments completely ablated (to background levels) HEK-TLR2 cell IL-8 reporter gene activity to BMFE thereby showing that the TLR2/6 activity depends on both lipid and protein moieties."

Metabolomics is increasingly becoming an important field in the pharmaceutical industry to support the discovery and development of therapeutic agents.

It allows the comprehensive and simultaneous profiling of hundreds of discrete biologically important molecules, including amino acids, sugars, lipids and exogenous substances from biological fluids and tissues.

BINDPRO™ HAS HIGH

Efficiency of high-abundance protein depletion allowing for effective study of drug to protein interaction.

USE BINDPRO™ AS A

SAMPLE PREP

by removing proteins and increasing the sensitivity of sample detection limits for eg: mass spec, ion chromatography etc. It also can extend the column life by removing impurities.

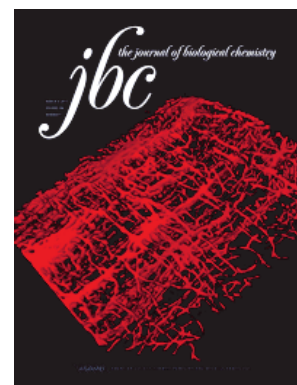
BINDPRO™ HAS MINI-

MAL

Non-specific removal of other than the targeted proteins .

[Wolbachia Lipoprotein Stimulates Innate and Adaptive Immunity through Toll-like Receptors 2 and 6 to Induce Disease Manifestations of Filariasis](#)

Joseph D. Turner
J. Biol. Chem. 2009 284: 22364-22378.



BindPro™ Protocol Research Collaboration

Linearly scaleable, unlike ultrafiltration

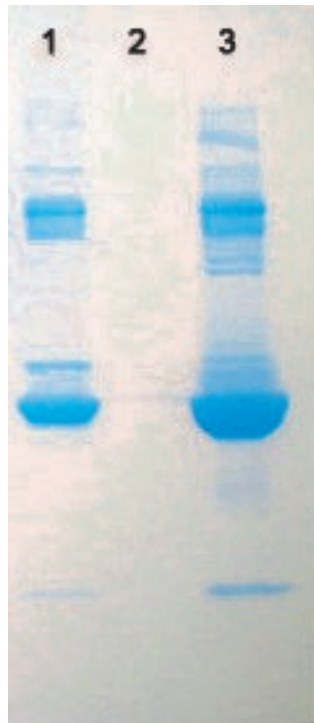
BindPro™ is a polymeric protein removal suspension reagent. It is designed as an alternative to ultrafiltration for applications that require a more versatile or scaleable format.

Suitable for use with surfactants, chaotropes, water-soluble analytes

BindPro™ also can be used in lieu of solvents for drug binding studies, especially useful for analytes that are water soluble.

Fast process, less than 15 minutes from application to separation

If desired, proteins can be recovered from BindPro™ under moderately alkaline conditions.



Lane 1: Plasma Control

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

Lane 3: Eluent from BindPro™.
Note: If necessary, proteins bound can be quantitatively recovered from BindPro™

Collaborate with Biotech Support Group

- Method validation for protein removal in research samples.
- Pharmacokinetics research work on proteins.
- Metabolomics research project for drug binding/screening & protein recovery

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