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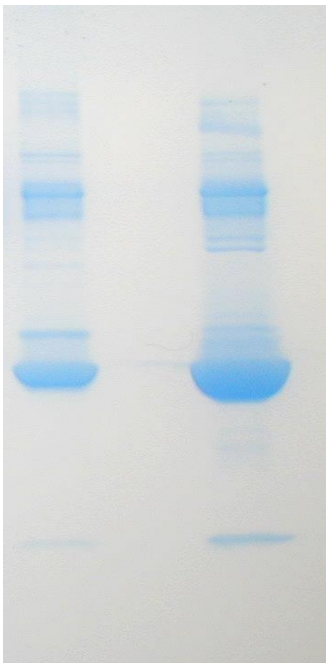
BindPro™

Aqueous Protein Crash & Enrichment of Metabolites/Analytes

- Serum and plasma protein removal, >95%
- Aqueous buffer system, simplifies analyte concentration
- Aqueous Protein Crash, linearly scalable, unlike chemical precipitation or membrane filtration.
- Applicable for drug binding/screening, target analytes and metabolomics
- Protein removal is species agnostic; sera tested includes human, mouse, sheep, bovine, goat, rat
- **BindPro™** supplied as a suspension reagent; related product – **NuGel™ BindPro™** supplied as a dry powder reagent

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. **BindPro™** also can be used in lieu of solvents for drug binding studies, especially useful for analytes that are water soluble. Consequently, **BindPro™** has applications in a range of drug binding, target analytes, and metabolomic investigations. If desired, proteins can be recovered from **BindPro™** under moderately alkaline conditions.



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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Performance Characteristics

Protein	BindPro™: Sample	Removal
BSA, PBS @ 30 mg/ml	1 : 1	>99%
BSA, 1%SDS @ 30 mg/ml	1 : 1	>99%
BSA, 3M GuSCN @ 30 mg/ml	1 : 1	>99%
Human Serum	2 : 1	>95%

Product	Size	# of Samples & Sample Size*	Item No.
BindPro™	15 ml	75, 100µl Serum Samples	BP355-15
BindPro™	50 ml	250, 100µl Serum Samples	BP355-50

PROTOCOL (volumes can be proportioned to any starting volume)

1. Resuspend BindPro™ by shaking well prior to use. The suspension is best dispensed using wide bore pipette tips.
2. For serum use, add 2 ml of BindPro™ to 1 ml of serum (2:1 volume ratio). For other samples, use guidelines above and adjust ratio to sample protein concentration.
3. Gently mix by inversion for 10 minutes at room temperature.
4. Centrifuge sample at 10,000 x g for 5 minutes or microfuge at 16,000 x g for 5 minutes.

The supernatant contains analytes with >95% serum protein removal, and is ready for concentration or further analysis.

References

Lipoproteins

Turner, Joseph D., R. Stuart Langley, Kelly L. Johnston, Katrin Gentil, Louise Ford, Bo Wu, Maia Graham et al. "Wolbachia lipoprotein stimulates innate and adaptive immunity through Toll-like receptors 2 and 6 to induce disease manifestations of filariasis." Journal of Biological Chemistry 284, no. 33 (2009): 22364-22378.

Patent

Bhogal, John, Shridhara Alva Karinka, Timothy P. Henning, David Cunningham, Udo Hoss, Andrew H. Naegeli, and John Latour. "Methods of Collecting and Analyzing Samples." U.S. Patent 20,120,296,189, issued November 22, 2012.

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CONTACT US

We welcome your questions and comments regarding our products.

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