



**A new spin on a classic
in protein analysis.**

Protein Precipitation

from Proteoform Scientific

Proteoform Scientific is empowering proteomics researchers with new sample preparation strategies and technology to simplify and maximize protein purity, yield, and throughput.

We've put a new spin on a classic sample prep technique with over 100 years of history, precipitation. Proteoform Scientific has created a solution that combines innovative protein precipitation protocols with the ProTrap XG tool to deliver high purity, high yield, and highly consistent samples, ideal for downstream mass spectrometry analysis.

SAMPLE PREP MATTERS

In protein analysis, it is well recognized that mass spectrometry data is only as good as the samples used. Highly pure samples yield better outcomes and promote longevity in instrument life span.

With sample preparation playing such a critical role in both top-down and bottom-up protein analysis workflows, Proteoform Scientific is committed to answering the unmet needs in generating high purity samples.

Our solutions focus on a widely acknowledged, exceptionally efficient, yet challenging sample purification technique, namely protein precipitation. Proteoform Scientific protocols and tools eliminate all of the challenges and bottlenecks present in conventional protein precipitation approaches. Our solution brings together reimagined protocols and the easy-to-use ProTrap XG tool to generate highly purified, consistent, and reproducible samples, all at an accelerated pace.

WITH PROTRAP XG SUPPORTED PROTEIN PRECIPITATION, YOU CAN

- Stop sacrificing yield for purity, or vice versa
- Purify samples to non-detectable levels of SDS, other detergents and impurities
- Prepare samples in minutes
- Eliminate tedious, clumsy, and multi-transfer/pipetting steps
- Generate samples in a reproducible manner that provides quantitative accuracy
- Confidently prepare samples by precipitation even with low sample levels

**Achieve protein purity of
99.8% and recovery greater
than 95%**

Purity.

99.8% protein purity

Yield

Over 95% protein recovery

Simple

Precipitate in minutes.
Eliminate tedious pipetting.
Consistency in samples.

SIMPLICITY & SPEED

The ProTrap XG is a two-stage, disposable filtration and extraction cartridge that takes the guesswork out of precipitation and sample prep. Many researchers find conventional methods of precipitation challenging, requiring tedious transfer and pipetting often leading to variable consistency and yield. Some methods show a loss of 50% or more of the sample, making analysis even more difficult. This tool eliminates tedious pipetting steps, offering consistency, scalability, and versatility in the sample prep process.

PROTEIN PRECIPITATION

CONVENTIONAL

Clumsy
Time consuming (overnight)
Highly variable
Not easy
Limited dynamic range
Not amenable to low proteins

VS.

PROTEOFORM SCIENTIFIC

Smooth and clean
As little as 2 minutes
Highly reproducible with quantitative accuracy
Easy-to-use device
Methods yielding broad dynamic range owing to dedicated research
Works at all protein amounts and concentrations

PROTRAP XG SPECS

The Filtration Cartridge contains a porous membrane which filters aggregated proteins while contaminants flush through. For convenience, a removeable Plug is attached to the Filtration Cartridge enabling the captured protein to be resolubilized and digested in the same device. The SPE Cartridge, which also attaches to the bottom of the Filtration Cartridge, enables subsequent cleanup, buffer exchange and desalting, as well as protein fractionation. The cartridges operate in a conventional bench-top centrifuge. Simply add your protein, precipitate, and spin.

ORDERING INFORMATION

ProTrap XG—10PK
Cat. No. PXG-0001
Quantity/Box: 10

ProTrap XG—50PK
Cat. No. PXG-0002
Quantity/Box: 50

ProTrap XG—100PK
Cat. No. PXG-0003
Quantity/Box: 100

ABOUT PROTEOFORM SCIENTIFIC INC.

Proteform Scientific Inc. is a Canadian-based developer and manufacturer of strategies and solutions for the growing field of proteomics. Our products help researchers improve sample preparation workflows for better analysis.

For more information visit proteform.com



©2021 Proteoform Scientific Inc. All rights reserved.
PTXG-PS Rev 0/1 022021



Proteoform Scientific Inc.
1344 Summer Street
Halifax, NS Canada B3H 0A8
t. +1 902 442 4664
e. info@proteform.com

proteform.com

