



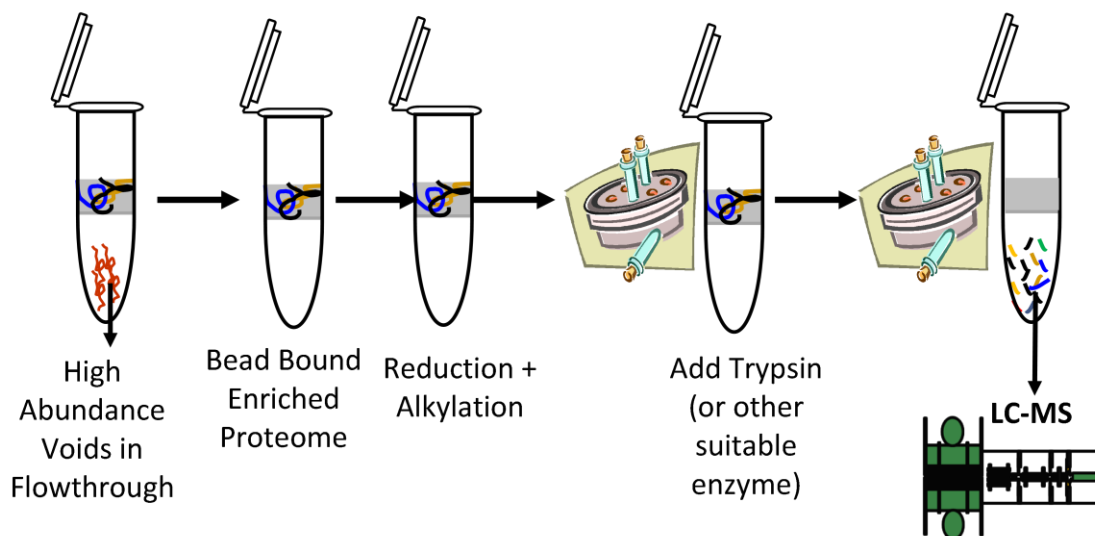
BIOTECH SUPPORT GROUP

AlbuVoid™

Albumin Depleted, On-Bead Digestion Method

Workflow for On-Bead Digestion

*High Abundance Depletion + Digestion Efficiency + Simple Workflows =
Better LC-MS Output*



- Simple, reproducible workflows
- Equivalent or better than in-solution digestion
- Seamless to LC-MS, no desalting or C18 separations

CONTACT US

We welcome your questions and comments regarding our products.

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PROTOCOL For On Bead Digestion Using **AlbuVoid™** Based On Processing 50 - 100 µl Serum

Albumin Depleted On Bead Protein Enrichment

1. Weigh out 25 mg of **AlbuVoid™** beads in a spin-tube (0.45µ SpinX centrifuge tube filter from Corning).
2. Add 125 µl of **Binding Buffer AVBB**. Vortex for 5 minutes at room temperature followed by centrifugation at 3000 rpm. Discard the supernatant.
3. Repeat step-2
4. Condition by adding 100 µl of AVBB and 50-100 µl of the Serum. Centrifuge for 5 minutes at 10,000 rpm. Add clarified sample to the AlbuVoid™ beads in step 3. Vortex for 10 minutes and then centrifuge for 5 min. at 10,000 rpm.
5. Remove the albumin enriched supernatant (Flow-Through) **FT**.
6. To the pellet add 250 µl of **Wash Buffer AVWB**. Vortex for 5 min and centrifuge for 4 minutes at 10,000 rpm. Remove the soup as **Wash**.
7. Repeat Step-6.

On-Bead Digestion Protocol

8. After the final wash steps from Step 7 from the enrichment, add 10 µL 100mM DTT + 90 µL **Wash Buffer AVWB**, vortex 10 min, incubate ½ hr at 60 °C.
9. After cooling, add 20µl 200mM Iodoacetamide, and 80 µL **Wash Buffer AVWB**, incubate in dark for 45 min at room temp.
10. Centrifuge at 10,000 rpm (microfuge max setting) for 5 minutes, and discard supernatant.
11. Add 40 µL Sequencing-grade trypsin (0.4µg/µl, in 50mM acetic acid) + 60 µL **Wash Buffer AVWB** to the beads. Digest overnight at 37°C or other optimized time period.

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- we have 0.45µ SpinX centrifuge tube filters. If required can be ordered separately.

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References:

Serum

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Patent - Secretome Sample Preparation

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Narain, Niven Rajin, and Paula Patricia Narain. "[COMPOSITIONS AND METHODS FOR DIAGNOSIS AND TREATMENT OF PERVASIVE DEVELOPMENTAL DISORDER](#)." U.S. Patent No. 20,150,023,949. 22 Jan. 2015.

Cell Culture

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On-Bead Digestion Protocols For LC-MS Proteomic Workflows

[New on-bead digestion for LC-MS applications for proteomic studies](#)

US HUPO 2014. Frontiers in Proteomics: Advancing Biology through Technology and Computation.

[AlbuVoid™](#) abstract entitled "[Improved proteomic enrichment and workflow strategies](#)", poster board 089 presented at US HUPO 2014

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