



## METHODS OF LABELING, PROCESSING, AND ANALYZING PROTEIN SAMPLES

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### The Invention

UW-Madison researchers have developed an improved covalent labeling system for use in protein footprinting. The innovation of the present disclosure advances a currently existing technology – a covalent labeling system called EDC/GEE (1-ethyl-3-(3-dimethylaminopropyl)carbodiimide/glycine ethyl ester), which modifies solvent accessible aspartate and glutamate residues. To advance this technique for the application of proteome-wide footprinting, the inventors have replaced the GEE with GPA (glycyl propargyl amide), to now become an EDC/GPA technique. GPA produces a more stable, single modification on a protein.

### Additional Information

#### For More Information About the Inventors

- [Michael Sussman](#)

#### Tech Fields

- [Analytical Instrumentation, Methods & Materials : Mass spectrometry](#)
- [Research Tools : Genomics & proteomics](#)
- [Research Tools : Protein interactions & function](#)

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