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Available Technologies

High-Pressure Protein Digestion System

SUMMARY

Researchers at PNNL have developed a system that utilizes high pressure to reduce the time of protein fractionation and improve peptide identification. The system involves the use of high pressure (either off-line or on-line) to significantly reduce enzymatic digestion times from hours to less than a minute. Use of the protein digestion system also reduces increases the total number of peptides identified in a sample and reduces the false discovery rate for the peptides. The system can be used in conjunction with liquid chromatography, and ion mobility spectrometry, as well as mass spectrometry.

ADVANTAGES

- * Significantly reduces the speed of enzymatic or other digestion methods for proteomics
- * Increases the number of peptides that are confidently identified in a given analysis

STATE OF DEVELOPMENT & AVAILABILITY

If you have further interest in this technology, please visit Pressure Bioscience's Web site at www.pressurebiosciences.com/pressure-enhanced-enzymatic-proteolysis.html or contact them at info@pressurebiosciences.com.



Technology Portfolio(s)

- » Mass Spectrometry Instrumentation

Potential Industry Applications

- » Healthcare, Pharma, Biotech & Medical

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