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Phoenix S&T Announces Expanded Availability of Capillary LC Column Heaters and Controllers in US and EU

Enables Precise Temperature Control for Improved Capillary LC Peptide Separation

CHESTER, PA, Sept. 14, 2010 — Phoenix S&T, Inc., a leader in the development of high-performance robust micro/nanospray technology, announces the availability of specialized capillary column heaters and controllers in the US and EU. The devices are designed to improve LC performance, resulting in more robust and reproducible LC-MS results. They are particularly well suited for micro-nanoLC/MS applications in proteomics where the need for improved data quality has become much more urgent.

“We are excited to offer a reliable and economical solution for precise temperature control and heating of capillary LC columns,” said Sau Lan Tang Staats, Ph.D., President and CEO of Phoenix S&T. “Column heating has proven to be particularly effective in helping membrane peptides elute from a column, dramatically improving retention time reproducibility and also reducing the back pressure of chromatographic runs with sub-3 micron particles that would otherwise require a costly high pressure uPLC pump.”

The advantages of column heating utilizing Phoenix S&T’s column heater and controller for more reproducible LC-MS results and for membrane peptide separations were reported in the 2010 American Society for Mass Spectrometry Annual Conference. Kwasi Mawuenyega, Ph.D., of Washington University presented data on reproducibly and simultaneously quantitating extremely hydrophobic c-terminals of the multiple isoforms of amyloid-beta in cerebrospinal fluid by heating the separation column at 80° C. The high temperature enabled the “sticky” peptides to elute and be sprayed into the mass spectrometer for MRM detection. Column heating proved to be a key element to this final step of an ingenious strategy designed for early-stage detection of Alzheimer disease.

Availability

Phoenix S&T offers column heaters for both capillary columns with integrated nanospray emitters as well as columns that have fittings at both ends. The column heater controller holds the CE mark and both devices are available for purchase in the United States and Europe. Visit



www.phoenix-st.com, or call Phoenix S&T at (610) 876-6081 for technical notes and more information.

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About Phoenix S&T, Inc. Phoenix S&T develops and markets high-throughput, robust manual and automated micro/nanospray single and dual-column sources, as well as column heaters, column heat controllers, and non-clogging nanospray emitters to deliver excellent micro/nanoLC/MS performance in proteomics and biomarker discovery research.