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Cerno Bioscience Paper Demonstrates Automated and Parameter-Free Peak Integration for LC/MS/MS Quantitation

Danbury, CT. (September 29, 2006) – A new paper from Cerno Bioscience and XenoBiotic Laboratories, is now available called 'Automated and Parameter-Free Peak Integration for LC/MS/MS Quantitation'. The paper demonstrates how Cerno's award winning MassWorks™, an easy-to-use post acquisition software package that utilizes the company's patented MSIntegrity™ technology to dramatically improve mass spectral measurements, standardizes peak shapes, improves signal-to-noise, deconvolutes overlapped peaks, improves quantitative accuracy and precision, as well as providing automated and parameter-free LC/MS/MS quantitation through a single operation.

Although LC/MS/MS quantitation using multiple reaction monitoring is highly selective, peaks with the same ion transition do occasionally overlap due to the interference from endogenous peak or inadequate separation for chiral compounds. In addition, low limits of quantitation are always desirable for the quantitation support for clinical trials. As opposed to hardware approaches, the paper reports novel post acquisition data processing methodologies with a unique calibration algorithm to improve the selectivity and lower quantitation limits when using MassWorks.

The methodologies involved extracting four chiral compounds from human plasma and urine. LC/MS/MS analysis of the compounds was performed on an AB/SCIEX API-4000 tandem mass spectrometer employing turbo-ion spray ionization in the positive ion mode along with multiple reaction monitoring (MRM).

The data processing technology of MassWorks, MSIntegrity, was used for all the peak integration and quantitation calculation. With no need to set up any peak integration parameters, the integration procedure began by first establishing a peak shape calibration from one chromatogram from within the same run before applying the calibration to the other chromatograms. The peaks in the calibrated chromatograms were integrated accurately without the usual set of empirical parameters, achieving truly automated peak integration.

Cerno's MassWorks won the PITTCON 2006 Editors' Choice Bronze Award following its show debut at the Pittsburgh Conference of Analytical Chemistry and Applied Spectroscopy in March 2006. This prestigious accolade is given to the best new product introduction for its contribution to the advancement of science, as judged by a panel of editors attending the show.



MassWorks utilizes Cerno's DirectRead™ technology to read most instrument data formats directly, eliminating the need for importing or exporting MS data to the clipboard or utilizing intermediate exchange formats. This saves time, reduces transcription errors, simplifies file management, and saves substantial disk space. As DirectRead doesn't alter the original data, it assists compliance with common regulatory requirements such as GLP and 21 CFR Part 11.

To access the research paper please visit www.cernobioscience.com/resources
For more information on MassWorks, please contact Cerno Bioscience at info@cernobioscience.com, call +1 203-312-1150, or visit www.cernobioscience.com

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About Cerno Bioscience LLC

Cerno is dedicated to the practical application of modern mathematical techniques to Mass Spectrometry for the purpose of improving the quality, accuracy and reliability of MS analysis. These techniques can be used to dramatically improve the amount of information obtainable from and reduce the amount of time required of many MS experiments. Cerno's technologies are proprietary and protected through numerous patents granted and submitted world-wide. The company was founded and is staffed by a team with over 80 years' experience in the fields of instrumentation, mathematical data processing, life science applications and biotech business development. Cerno is funded by a private investment group with an established track record of success in the Analytical Instrumentation market.