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Media Contact:

Charlotte Culley
The Scott Partnership
Tel: +44 1606 837787
Email: cerno@scottmail.co.uk

Don Kuehl
Cerno Bioscience
+1 203-312-1150 x1153
don.kuehl@cernobioscience.com

Cerno Bioscience Launches MassWorks™ CLIPS for Unprecedented Elemental Composition Determination

Chicago, IL. (February 26, 2007) – Cerno Bioscience announces the unveiling of MassWorks™ CLIPS (Calibrated Lineshape Isotope Profile Search), an entirely new and revolutionary way to attain fast and reliable elemental composition determination (ECD) from single or triple quadrupole mass spectrometers. Using Cerno's pioneering calibration techniques combined with this latest breakthrough, users of any single or triple quadrupole mass spectrometer will be able to attain unambiguous elemental composition ID, a capability previously not possible with accurate mass measurements alone and difficult to achieve even on more expensive high resolution systems. During ECD, CLIPS relies not only on mass accuracy but, more importantly, on a newly developed and uniquely selective metric called Spectral Accuracy when evaluating different formulae of very similar exact masses. This radical innovation has not been possible before and will be demonstrated exclusively at PITTCON 2007 booth #4579, Chicago, Illinois, February 26 – March 1 2007.

In order to use the full isotope fingerprint to unambiguously identify an unknown compound formula, CLIPS utilizes the accurate mass calibration of the award-winning MassWorks™. Normally, single and triple quadrupole instruments can only produce indistinct unit mass resolution data, but with MassWorks they can obtain up to 5ppm mass accuracy. This enables a formula search to pare down a small number of formula candidates, a capability usually only available in highly specialized high resolution systems. However, MassWorks not only calibrates the instrument data to accurate mass, it also calibrates the actual instrument lineshape to a known mathematical function. This allows for the accurate calculation of the theoretical isotope profile for each formula candidate using the same lineshape as the calibrated lineshape. The patented CLIPS algorithm then matches each formula candidate to the calibrated mass spectrum with unparalleled differentiating power to provide a unique formula determination via the Spectral Accuracy metric.

"For the first time ever, MassWorks CLIPS provides mass spectrometrists with a definitive answer when conducting elemental composition determination", says Dr. Yongdong Wang, president of Cerno Bioscience. "In the past, single and triple quad mass spectrometers were generally not considered suitable for formula ID. MassWorks' ability to calibrate these instruments to accurate mass and the CLIPS unique ability to calculate the Spectral Accuracy enables these low resolution instruments to discover the actual formula of the unidentified compound."

For users with access to high resolution instruments, CLIPS also provides inexpensive and routine ECD on a day-to-day basis using simple, less expensive equipment. This frees up the high resolution systems and their highly trained operators for more challenging tasks. In addition, CLIPS can significantly reduce labor costs, as ECD can now be performed more routinely by less experienced operators.

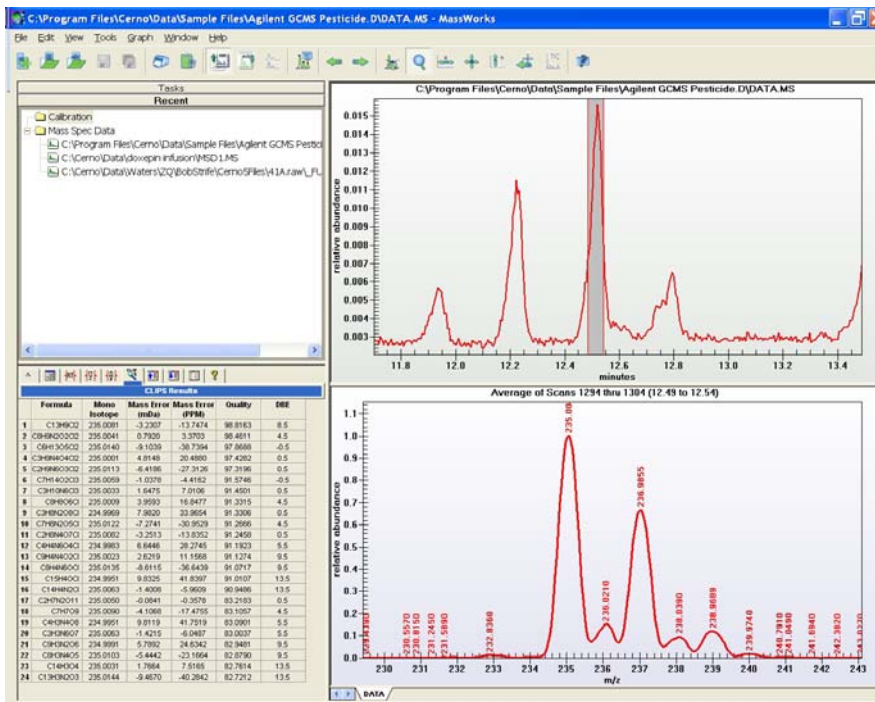
For more information on MassWorks CLIPS, please visit Cerno Bioscience at PITTCON 2007, booth #4579, email info@cernobioscience.com, call +1 203-312-1150, or visit www.cernobioscience.com.

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For further press information please contact Charlotte Culley, The Scott Partnership, The Old Barn, Holly House Estate, Cranage, Middlewich, Cheshire CW10 9LT Tel: 01606 837787 Fax: 01606 837757 e-mail: cerno@scottmail.co.uk

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.



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