

September 25, 2009



Pressure BioSciences, Inc. Releases Two Novel, PCT-Dependent Sample Preparation Kits for the Proteomic Research Market

SOUTH EASTON, Mass., Sept. 25, 2009 (GLOBE NEWSWIRE) -- Pressure BioSciences, Inc. (Nasdaq:PBIO) ("PBI" or the "Company") today announced the commercial release of ProteoSolve-CE NATIVE and ProteoSolve-CE STRINGENT, two novel, pressure cycling technology ("PCT")-dependent kits for the extraction of proteins from the nematode ("worm") *Caenorhabditis elegans* ("C. elegans"). The two kits contain proprietary reagents, consumable processing containers ("PULSE Tubes"), and instructions for use, and are intended to be used with the Company's patented PCT Sample Preparation System. Together, these new kits offer the researcher the ability to extract an abundance of either native or denatured proteins from nearly all parts of the C. elegans organism.

C. elegans is one of the most widely used model organisms in laboratory research today. It is an ideal study animal because it is small, not complex, easy to grow and maintain in the lab, and has a short and very predictable life cycle. Importantly, biological information learned from studying this worm has been shown to be directly applicable to more complex organisms, such as humans. The 2002, 2006, and 2008 Nobel Prizes were awarded to six different researchers for discoveries made involving this organism.

Both kits were developed in conjunction with Dr. John Collins, Associate Professor of Biochemistry at the University of New Hampshire (UNH), and an expert in the study of C. elegans. Dr. Collins said: "The tough outer coat ("cuticle") of C. elegans makes it extremely resilient to lysis. This causes great difficulty to researchers who need to study its genes and proteins. The new kits from PBI significantly improve the ability to break apart this very important model organism, which in turn enables the researcher to more easily extract important biomolecules for scientific studies. Because of these and other clear advantages, I believe that these kits should be well received by the very large and growing C. elegans research community."

Dr. Collins continued: "In addition, we are of course delighted that my graduate student, Ms. Gabrielle E. Giese, was selected by the Human Proteome Organization (HUPO) 2009 8th World Congress to receive a Young Investigators Travel Award for her work on C. elegans and PCT. She will be presenting her work at the HUPO Meeting next week in Toronto."

In addition to working with UNH, PBI also engaged the capabilities and resources of the Laboratory for Innovative Translational Technologies (HC-LITT) of Harvard Catalyst | The Harvard Clinical and Translational Science Center to help in the development of these new products. Dr. Winston Kuo, Director of HC-LITT, stated: "Our collaboration with PBI in the development of these important kits for C. elegans research fits our vision to create a 'win-win' environment between Harvard researchers and industry. Under this very innovative program, companies such as PBI have access to the expertise and technologies contained

within HC-LITT. In return, we receive early access to cutting-edge technologies such as PCT, and the new PCT-based *C. elegans* kits."

Dr. Nate Lawrence, Vice President of Pressure BioSciences, commented: "Although developed specifically for *C. elegans*, we believe these new kits can also play a key role in studies of other nematodes. This is important, since human, animal, and plant parasitic nematodes currently cause significant public health and agriculture issues. For example, the cost of crop damage caused by plant parasitic nematodes alone is estimated to be well in excess of \$1 billion per year. Since a thorough understanding of nematode DNA, RNA, and proteins is crucial to achieve better control of nematode related diseases, improved methods for the extraction of nucleic acids and proteins from nematodes is imperative. To that end, we believe these new kits offer a safer, faster, and more accurate way to extract nematode biomolecules than current methods, and we look forward to making these kits available to the nearly 1,000 scientists in our current data base who are specifically working in nematode research."

About Pressure BioSciences, Inc.

Pressure BioSciences, Inc. (PBI) is a publicly traded company focused on the development of a novel, enabling technology called Pressure Cycling Technology (PCT). PCT uses cycles of hydrostatic pressure between ambient and ultra-high levels (up to 35,000 psi and greater) to control bio-molecular interactions. PBI currently holds 13 US and 6 foreign patents covering multiple applications of PCT in the life sciences field, including genomic and proteomic sample preparation, pathogen inactivation, the control of chemical (primarily enzymatic) reactions, immunodiagnostics, and protein purification. PBI currently focuses its efforts in the development and sale of PCT-enhanced enzymatic digestion products designed specifically for the mass spectrometry marketplace, as well as sample preparation products for biomarker discovery, soil and plant biology, forensics, histology, and counter-bioterror applications.

Forward-Looking Statements

Statements contained in this press release regarding the Company's intentions, hopes, beliefs, expectations, or predictions of the future are "forward-looking" statements within the meaning of the Private Securities Litigation Reform Act of 1995. Such forward-looking statements include statements regarding the use and capabilities of the Company's Pressure Cycling Technology Sample Preparation System (PCT SPS) and the ProteoSolve-CE Native and Stringent kits for the extraction of proteins from *C. elegans*; that the new kits offer the ability to more easily break apart and extract proteins from *C. elegans* and other nematodes; the potential markets for the Company's PCT-based products; the effect of parasitic nematodes to public health and agriculture; and the suggested safety, speed, and accuracy of the new kits. Forward-looking statements also include statements regarding the potential of the Company's pressure cycling technology. These statements are based upon the Company's current expectations, forecasts, and assumptions that are subject to risks, uncertainties, and other factors that could cause actual outcomes and results to differ materially from those indicated by these forward-looking statements. These risks, uncertainties, and other factors include, but are not limited to: possible difficulties or delays in the implementation of the Company's strategies that may adversely affect the Company's continued commercialization of PCT and its PCT-dependent products; changes in customer's needs and technological innovations; and the Company's sales force may not be

successful in selling the Company's PCT product line because scientists may not perceive the advantages of PCT over other sample preparation methods, including in the C. elegans and other nematode research area. Further, the Company expects that it will need additional capital to fund its continuing operations beyond the second quarter of 2010. Additional risks and uncertainties that could cause actual results to differ materially from those indicated by these forward-looking statements are discussed under the heading "Risk Factors" in the Company's Annual Report on Form 10-K for the year ended December 31, 2008, and other reports filed by the Company from time to time with the SEC. The Company undertakes no obligation to update any of the information included in this release, except as otherwise required by law.

Visit us at our website <http://www.pressurebiosciences.com>

CONTACT: Pressure BioSciences, Inc.
Investor Contacts:
Richard T. Schumacher, President & CEO
R. Wayne Fritzsche, Chairman
(508) 230-1828