Pressure BioSciences Inc.

PCT NEWS

OTCQB: PBIO
Discovery Starts With Sample Preparation™

Volume 9, Issue 1 January 2015

Pressure BioSciences Ships First Two Barozyme HT48 High-Throughput Systems

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Evaluations of PBI's New High-Throughput PCT-based System Underway at a World Renowned Academic/Research Institution and a Leading Biotechnology Company. Additional Evaluations at Key Opinion Leader Laboratories Scheduled.

South Easton, MA, November 18, 2014 – Pressure BioSciences, Inc. (OTCQB: PBIO) ("PBI" or the "Company") today announced the installation of its first two Barozyme HT-48 high throughput systems for independent evaluation and subsequent potential sale. One system was placed in the laboratory of Dr. Radoslav Goldman of Georgetown University while the other was placed in the laboratory of a leading biotechnology company. In both settings, the Company believes the new systems will deliver important and unique capabilities for the analysis and characterization of biological samples. Both groups are current customers of the Company's patented pressure cycling technology ("PCT")-based products.

The Barozyme HT48 is a first-in-class, high-throughput, PCT-based instrument. It is capable of processing up to 48 samples simultaneously using the Company's proprietary BaroFlex 8-well, single-use processing strips. Together, the new Barozyme HT48 instrument and BaroFlex 8-well processing strips make up the Barozyme HT48 High Throughput System (the "Barozyme HT48 System").

The Barozyme HT48 System was designed for rapid, high quality protein digestion - a universally important procedure that the Company believes is conducted in thousands of laboratories worldwide. The ability of the Barozyme HT48 System to process up to 48 samples simultaneously in the universally accepted "microplate" format is a major improvement in the throughput of sample handling and a key step towards automation of PCT-based sample preparation. The new BaroFlex format of disposable sample containers in 8-well strips lowers the total cost per sample processed by PCT and facilitates integration of PCT processing with robotic automation, essential to the throughput and efficiency of modern laboratories. Lastly, the Barozyme HT48 Systems' computer control was designed to meet GLP compliance demands of biopharmaceutical quality control and clinical proteomics labs.

Dr. Radoslav Goldman, Professor in the Department of Oncology at Georgetown University, and an expert in the detection of liver disease and its progression to cancer, said: "Glycosylated proteins may facilitate the escape of cancer cells from the immune system's surveillance and subsequently help with tumor metastasis. It is therefore crucial that innovative technologies that can potentially enhance the detection of cancer-related molecules – such as certain glycosylated proteins - continue to be developed. We believe the new Barozyme HT48 System, with the potential to offer accelerated, higher quality sample preparation, may bring measurable benefits to biomarker discovery for cancer and other diseases."

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The Barozyme™ HT48

The Barozyme HT48, the newest member of PBI's Pressure Cycling Technology (PCT) Barocycler family of products, is a high throughput bench-top instrument designed for accelerated enzymatic digestion of proteins at high pressure and elevated temperature. The Barozyme HT48 uses an air-pressure-to-liquid-pressure intensifier system, with a pressure amplification ratio of 160:1, to reach an output pressure of 20,000 psi (~1.4 kbar or ~140 MPa). The Barozyme HT48 is capable of processing up to 48 samples at a time in six single-use BaroFlex 8-well processing strips ("microplate" format) in the Barozyme Sample Carrier. Typical digestion times can often be reduced from hours to minutes.

Click on the Title for a Complete Specification Sheet

Click Here to See Video

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UPCOMING EVENTS

Pressure BioSciences, Inc. (PBI) to showcase its new cutting-edge Barozyme HT48 high throughput instrument for enhanced enzymatic digestion of proteins at the 2015 US HUPO/Next Generation Proteomics Meeting, March 15-18, 2015 in the Tempe Mission Palms Hotel, Tempe, AZ.

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Click on These Titles to Learn More about Dr. Goldman's Research and High Pressure Enhanced Deglycosylation

Site specific glycoforms of haptoglobin in liver cirrhosis and hepatocellular carcinoma.

Quantitative LC-MS-MRM analysis of site-specific glycoforms of haptoglobin in liver disease.

Pressure BioSciences Ships First Two Barozyme HT48 Systems:
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Dr. Goldman continued: "In addition, glycosylation of protein pharmaceuticals has been shown to increase drug half-life in circulation and thus improve the efficacy of therapeutic compounds. Our laboratory routinely uses PCT-based sample preparation prior to mass spectrometric analysis of glycosylated proteins. We are excited to evaluate PBI's new high throughput, automation-friendly Barozyme HT48 System, as it may allow analyses that are faster, less expensive, and of higher quality than other sample preparation methods now available."

Dr. Nate Lawrence, Vice President of Marketing and Sales at PBI, said: "We are delighted to have the first two independent evaluations of the Barozyme HT48 System being conducted by such well-regarded, important groups. We expect to complete the assembly, release, and shipment of the next three Barozyme HT48 Systems within the coming weeks and to install them shortly thereafter. Many groups have asked or agreed to be included in the Barozyme HT48 System evaluation program, including world renowned pharmaceutical, biotechnology, academic, government, and commercial testing laboratories. We believe these evaluations will fuel growth, increase revenue for existing and new PCT-based applications and products, and greatly facilitate the formation of new strategic partnerships."

About Pressure BioSciences, Inc.
Pressure BioSciences, Inc. ("PBI") (OTCQB: PBIO) develops, markets, and sells proprietary laboratory instrumentation and associated consumables to the estimated $6 billion life sciences sample preparation market. Our products are based on the unique properties of both constant (i.e., static) and alternating (i.e., pressure cycling technology, or PCT) hydrostatic pressure. PCT is a patented enabling technology platform that uses alternating cycles of hydrostatic pressure between ambient and ultra-high levels to safely and reproducibly control bio-molecular interactions. To date, we have installed over 250 PCT systems in approximately 160 sites worldwide. There are over 100 publications citing the advantages of the PCT platform over competitive methods, many from key opinion leaders. Our primary application development and sales efforts are in the biomarker discovery and forensics areas. Customers also use our products in other areas, such as drug discovery & design, bio-therapeutics characterization, soil & plant biology, vaccine development, histology, and counter-bioterror applications.

Forward Looking Statements
Statements contained in this press release regarding PBI'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. 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, the risks and uncertainties discussed under the heading "Risk Factors" in the Company's Annual Report on Form 10-K for the year ended December 31, 2013, 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.

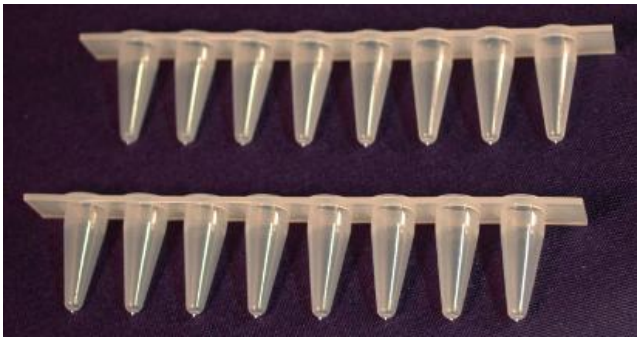
For more information about PBI and this press release, please click on the following website link:

http://www.pressurebiosciences.com

Please visit us on Facebook, LinkedIn, and Twitter

The Barozyme™ HT48: **Continued from Page 1, Column 2**

BaroFlex 8-well Strips
BaroFlex 8-well strips are used in the Barozyme HT48 (See Specification Sheet) for pressure-enhanced enzymatic digestion at 20,000 psi (~1.4 kbar or ~140 MPa). Only BaroFlex 8-well processing strips, Microtubes, and Microtube caps provided by PBI can be used in the Barozyme HT48. Use of non-approved processing containers will result in tube breakage, loss of sample under pressure, and harm to the Barozyme HT48 instrument.



Features and Benefits
- Ideal for Accelerated Enzymatic Digestion of Proteins
- Uses Patented Pressure Cycling Technology (PCT)
- Operates at Optimum Pressure of 20,000 psi (~1.4 kbar or ~140 MPa)
- Choice of Run Times for Customizing Digestion Conditions
- Adjustable Chamber Temperature for Added Flexibility
- Uses Convenient "PCR-style" BaroFlex 8-well Strips (Cat # BF8WS-0006.)
- Process Up To 48 Samples at a Time
- Digestion Times Can Often Be Reduced from Hours to Minutes.
- Bench-top High Pressure System with Convenient User Interface
- Laptop with All Necessary Software Provided USB-powered Computer Interface
- Standard 9mm Tube Spacing is Compatible with Standard Multichannel Pipettes, Robotic Liquid Handlers and 96-well Plate Centrifuge Rotors

Click on the Title for a Complete Specification Sheet

Click Here to See Video

Click on this Link
info@pressurebiosciences.com
to Request a Demonstration of a
Barozyme HT48 System in Your Laboratory
Please Include Your Contact Information