

Protein Technologies, Inc.

Protein Technologies, Inc. (PTI) has manufactured and sold the world's finest solid phase peptide synthesizers for 25 years. PTI produces high performance, flexible instrumentation with the best reliability in the industry using its unique, patented matrix block technology. PTI has placed hundreds of peptide synthesizers in academic institutions, biotechnology companies and pharmaceutical companies worldwide, and strives to provide the best service to its customers through both technical and chemistry support.

All of PTI's instruments are solid and have stood the test of time. PTI's first model, the **PS3™** is unmatched in its simplicity and ease of use and is still one of the most affordable introductory units today!

PTI's **SYMPHONY®** peptide synthesizer has been a workhorse in the custom peptide industry since 1993. 12 independent reaction vessels give it the power of 12 synthesizers in one! Its unbeatable production has led peptide houses across the world to purchase two, three, and even ten **SYMPHONIES®** to maximize profitability! For labs that are just starting out, the 4-channel **QUARTET™** is available. Both feature automated cleavage.

In 2006 and 2007, PTI released the **PRELUDE®** and **TRIBUTE®** peptide synthesizers, respectively. These instruments include many groundbreaking features that had not yet been seen in the peptide synthesizer field. A full-color, chemical-resistant touchscreen and amino acid barcode scanning make setup on the **TRIBUTE®** a snap. Vortex mixing and amino acid pre-activation ensure high purities and yields. The **TRIBUTE®** also features 101 amino acid positions, E-mail notification, user-logging, automated cleavage and more! The **PRELUDE®** features low to no prime reagent additions and extra bottle positions, making it perfect for special monomer additions! Top-down washing and adjustable nitrogen mixing ensure high purities and yields. The **PRELUDE®** also features E-mail notification, rinse-on-error, user-logging, automated cleavage and more!

As a result, PTI has enjoyed double-digit growth in both 2007 and 2008. PTI continued this trend in 2009 thanks to the release of the new **IntelliSynth UV-Monitoring and Feedback Control System** option for the **TRIBUTE®**, and the new larger capacity **SONATA® XT** mid-range peptide synthesizer the same year. The **IntelliSynth UV-Monitoring System** monitors the extent of the deprotection reaction, then uses that data to control the deprotection reaction time and number of repeats as well as the coupling time. It is the only system on the market today which monitors the deprotection reaction in real-time as opposed to one measurement at the end, representing a major breakthrough in UV-monitoring technology.

The **SONATA® XT** doubles the capacity of the **SONATA®** peptide synthesizer to the 200 mmol scale, or up to ~400 g of resin! The reaction vessel range for both instruments has also been expanded to six different sizes ranging from 200 mL to 4.2 L.

In 2010, PTI released the **OVERTURE™** Robotic Peptide Library synthesizer. The **OVERTURE™** features vast improvements over existing robotic platforms including multiple simultaneous program operation, rinse-free amino acid dispensing, flexible flood-fill or wand-fill deliveries, automated cleavage without user intervention and more! This makes the **OVERTURE™** the most consistent, efficient peptide synthesizer in its class.

PTI also supplies high quality amino acids and reagents for peptide synthesis.

Finally, PTI's chemistry team has provided excellent customer service and support and has had several papers published on fast conventional Fmoc solid phase peptide synthesis with HCTU. PTI is proud of its accomplishments and will continue innovating to better serve the needs of the peptide synthesis community.



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For more information, please contact:

Protein Technologies, Inc.

4675 S. Coach Dr., Tucson, AZ 85714, U.S.A.

Tel: +1-520-629-9626, Fax: +1-520-629-9806

Email: info@ptipep.com, Web: www.ptipep.com