



For Immediate Release

Semba Biosciences, Inc. to launch the world's smallest, most affordable simulated moving bed chromatography system at Pittcon 2009

Semba Biosciences is introducing the Semba Octave™ Chromatography System at Pittcon 2009, March 8-13, 2009, in Chicago, IL, USA (**Booth No. 1114**).

Semba's innovative Octave platform is a fully automated, continuous flow chromatography system for research and preparative scale molecular purification. Simulated moving bed chromatography (SMBC), a powerful approach to chromatographic fractionation, has been well-established for industrial scale production, including chiral separations. The countercurrent flow created by SMBC enables extremely efficient utilization of stationary and mobile phases, leading to dramatic increases in operational productivity. The same benefits SMBC brings to large scale chromatography are realized on a smaller scale with the innovative Semba Octave System. This multipurpose instrument will continuously process chemical or biological samples, including racemates, cell lysates, and crude fractions, to yield hundreds of milligrams to grams of purified enantiomers, recombinant protein, or antibodies in hours. With its compact footprint and simple operation, the Semba Octave Chromatography System enables researchers to take advantage of the power of SMBC on the bench top.



Unlike the mechanical valves used in many chromatography systems, the Octave employs a unique pneumatic valve design (patent pending) that contains no moving parts, occupies only 3 microliters, and responds within 100 milliseconds. Two valve blocks, each containing 36 valves connected through a series of microchannels, provide robust and effective control of the SMBC process. The intuitive SembaPro™ software application can program a wide variety of flow configurations with up to 8 columns for rapid method development and optimal separation performance. The compact Pump Module features four pumps with PEEK heads and precise flow control from 0.5 – 10 ml/min. The non-metallic flow path in the Semba Octave System is compatible with a wide variety of biological and chemical separation media and reagents.

About Semba Biosciences, Inc.

Semba Biosciences, Inc. is a life science company located in Madison, Wisconsin, USA. Founded in 2005, the company provides innovative instruments, reagents, and methods for high-performance purification of biomolecules and chemicals to the worldwide research community.

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