

PRESS RELEASE:**Brabender® Pharma USA, Inc. and Particle Sciences Cooperate
to Expand Extrusion Capabilities**

SOUTH HACKENSACK, NJ / BETHLEHEM, PA, January 10, 2012 -- Particle Sciences Inc. (PSI), a leading pharmaceutical CRO is adding a Brabender® Mini-Compounder 12 mm twin screw extruder, plus an ATR Torque Rheometer with single screw extruder for co-extrusion applications, to its development and production lines. This is Particle Sciences' fourth extruder dedicated to drug/polymer combinations. According to Mark Mitchnick, Particle Sciences' CEO, "The demand for cGMP extrusion is increasing. Needs range from hot melt extrusion for solid oral dosage forms to drug eluting devices. Particle Sciences is the leading CRO in this area having invested heavily in equipment, high potency compound handling infrastructure and proprietary modeling software. With injection molding, tube extrusion, coextrusion and the leading analytic support facility, we are working very hard to make sure our clients' projects move as quickly as possible. In 2011 we successfully brought such products into the clinic and already have several scheduled for cGMP manufacturing in 2012. While there are several fine extruders on the market, Brabender® Pharma has focused their 12 mm on the pharmaceutical development space. Its ease of cleaning, full cGMP compliance and extensive data capture capabilities make it a valuable addition to rapid product development efforts." Kevin Van Allen, Brabender® Pharma's V.P. of Sales & Marketing, adds "Particle Sciences is an innovative leader in pharmaceutical extrusion and we are very pleased to be working with them. With the placement of the Mini-Compounder at Particle Sciences, Brabender® Pharma clients will now have a US site for evaluation and development of their API's from early stage and into cGMP production, including highly potent compounds. The 12 mm Mini-Compounder will be a truly valuable asset to Particle Sciences Inc. because its clamshell barrel, removable liner and segmented screw elements will offer numerous new processing capabilities to explore. As pharmaceutical extrusion processes are continually being refined, we feel that the 12 mm Mini-Compounder plus added co-extrusion capabilities will give PSI a world of future product development possibilities."

Brabender® Pharma USA, Inc. is an innovative company specializing in the manufacturing of twin-screw extruders for HME applications. The effort has been to concentrate on top quality equipment to produce small batch sizes up to production scale processes. The 12 mm Min-Compounder is ideally suited to this undertaking while other models offer options to achieve production capacity. Our success is accomplished by many years of knowledge in this area – we present a solution to the increased demand for small batch analysis while providing the finest quality equipment and instruments.

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Particle Sciences is an integrated provider of drug development services. Particle Sciences focuses on BCS II/III/IV molecules, biologics and highly potent compounds through a variety of technologies including emulsions, gels, micro and nano-particulates, drug/device combination products, solid solutions and others. Through a full range of formulation, analytic, and manufacturing services, Particle Sciences provides pharmaceutical companies with a complete and seamless development solution that minimizes the time and risk between discovery and the clinic. The company was founded in 1991 and is headquartered in Bethlehem, Pennsylvania. Visit www.particlesciences.com, email info@particlesciences.com or contact us at (610) 861- 4701 for information.

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