**FOR IMMEDIATE RELEASE**

# MICROFLUIDICS INTRODUCES M-110EH-30 MICROFLUIDIZER® PROCESSOR

*New Version of the Lab Machine Designed to Operate to 30,000 psi Process Pressure*

**Newton, Mass.** – Microfluidics introduces the latest version of its laboratory model M-110EH Microfluidizer® processor, the M-110EH-30. Designed to operate reliably and efficiently at up to 30,000 psi process pressure, the M-110EH-30 is beneficial to the production of nano-suspensions and nano-emulsions as well as cell disruption with the least number of passes. Additionally, more efficient processing of pharmaceutical formulations, fine chemicals, and biological material ranging from simple oil-in-water emulsions to highly immiscible solids-in-liquid suspensions will result.

All results from the M110EH-30 machine are guaranteed to be scaleable to Microfluidics' broad line of pilot and production machines.

Utilizing Microfluidics' fixed geometry interaction chamber technology, the M-110EH-30 is capable of generating shear rates within the product stream that are orders of magnitude greater than any other fluid processing or mixing equipment on the market. Shear rate, which is directly proportional to the process pressure setting, imparts the required energy directly to the product stream, safely disrupting bacteria cells and reducing particles and droplets to nanoparticles.

Equipped with a single acting intensifier pump that amplifies the hydraulic pressure at the simple turn of a knob, the M-110EH-30 is able to drive the product stream through the interaction chamber. The machine provides an average flowrate (with water) of 320 ml/min and can handle batch sizes of up to several gallons.

Within the patented wear-resistant, ceramic or diamond interaction chamber is specially designed fixed-geometry micro channels that accelerate the product stream to high velocities and create high shear and impact forces to achieve the desired results.

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Upon exiting the interaction chamber, the product flows through an onboard heat exchanger that regulates the product to a desired temperature. At this point, the product may be recirculated through the system for further processing or directed externally to the next step in the process.

The system is easy to operate and is designed for clean-in-place and steam-in-place with a steam sterility option. Because the interaction chamber employs no moving parts, no disassembly is required for cleaning.

**About Microfluidics**

Microfluidics, a wholly owned subsidiary of MFIC Corporation, provides patented and proprietary high performance Microfluidizer® materials processing equipment to the biotechnology, pharmaceutical, chemical, cosmetics/personal care and food industries. Microfluidics applies its nearly 20 years of high pressure processing experience to produce the most uniform and smallest liquid and suspended solid structures available, and has provided manufacturing systems for nanoparticle products for more than 15 years. The Company is a leader in advanced materials processing equipment for laboratory, pilot scale and manufacturing applications, offering innovative technology and comprehensive solutions for nanoparticles and other materials processing and production. More than 3,000 systems are in use and afford significant competitive and economic advantages to Microfluidics equipment customers.

Companies seeking an affordable, high-pressure fluid processor can get complimentary sample testing at one of three Microfluidics facilities. Visit www.microfluidicscorp.com, email mixinginfo@mfics.com or contact Microfluidics at 800.370.5452 for application information.

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