



# Translume

Advanced Glass Micromachining

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## FOR IMMEDIATE RELEASE:

### **Translume Introduces Microfluidic Chips with Embedded Nozzles and Integrated Fibers**

ANN ARBOR, MICHIGAN, January 19, 2011 -- Translume, Inc. announced today that it has launched two new microfluidic chip products for bio, medical and chemical applications.

1. **Translume 3-D Sheath Flow Cell:** Allows the user to inject a fluid of interest from an embedded nozzle and surround that fluid of interest with a sheath on all sides. The channels are arranged in a Y-shaped pattern. The fluid of interest feeds from the middle channel, through a nozzle.
2. **Translume Microfluidic Chip with Integrated Fiber:** Allows the user to interrogate a fluid of interest with light and take a measurement from the other side. The flow cell is comprised of a single channel with an input fiber on one side and an output fiber on the other side. Integrated lenses collimate or focus the light from the fibers so that a well-defined ray interrogates the channel.

Photos and drawings of these new products are available on Translume's website.

The company anticipates sales of these new devices to major corporations and research institutions around the world. Today, Translume's microfluidics customers already use the company's chips and flow cells to advance the fields of genomics, proteomics, nanotechnology and particle counting.

"Our two new features, embedded nozzles and integrated fiber-lens assemblies, give our devices major advantages over other microfluidics solutions," said Philippe Bado, President and Chief Technology Officer of Translume. "We have found that our customers have asked for hydrodynamic focusing and ability to connect chips to analytical instruments. Our embedded nozzles and integrated fibers-lens assemblies will deliver these benefits."

Translume's proprietary technology gives its chips several other advantages over other commercial offerings, and at a competitive price. The company uses ultrafast femtosecond laser pulses to create deep three-dimensional microchannels with sharp-shaped



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features that are unavailable using traditional mask and etching techniques. In addition, Translume microfluidic chips are fabricated exclusively from high-quality fused silica glass, a chemically inert, UV-transparent, non auto-fluorescent material that is preferred for most bio-applications.

Translume's microfluidics product line was made possible by an investment from the State of Michigan's 21<sup>st</sup> Century Jobs Fund Program. Also, the company has previously received investments from two venture capital funds, Ardesta and Avalon Technology Ventures.

ABOUT TRANSLUME: Translume, Inc. is headquartered in Ann Arbor, Michigan. The company was founded in 2001. The company's customers include players in the fields of defense, biomedicine and industrial monitoring. More information is available on the company's website at [www.translume.com](http://www.translume.com).