



Dolomite Microfluidics offers new microfluidic chips for Telos® system

Dolomite Microfluidics has launched a number of new microfluidic chip options for its innovative Telos® system. The expanded range of high quality glass chips is intended to open up a number of new applications for the high-throughput Telos platform, providing a genuinely scalable option for droplet, particle and flow product generation across a wide range of industries.

The expanded range now includes a 50 µm version of the Telos 2 Reagent Chip to complement the original 100 µm option, allowing the formation of monodisperse, 10 to 75 µm droplets containing two reagents. The growing popularity of microfluidic cell and particle encapsulation techniques has also led to the development of the Telos 2 Reagent Encapsulation Chip. Available in 30 and 50 µm sizes, these chips lack the on-chip filters built into the standard reagent chips, allowing the straightforward encapsulation of cells, beads or particles in 5 to 75 µm droplets. Finally, the Telos 1 Reagent 3D Flow Focusing chips have been created for single reagent applications that suffer from high surface fouling using standard chip geometries. Each fluid junction has a redesigned 'pore' structure on the outlet side, promoting earlier detachment of the droplets from the walls of the channel to reduce fouling and allow longer production runs.

All Telos chips have seven parallel junctions, and are available with hydrophilic, hydrophobic and fluorophilic coatings to allow the generation of oil-in-water, water-in-oil and water in fluorinated oil emulsions. Up to 10 chips can be run in parallel on the Telos system – with integrated valves for rapid start-up and individual chip control – providing 70 junctions for flexible processing over a wide range of pressures and temperatures. This innovative system removes the low throughput limitation of individual microfluidic chips, enabling up to 1 tonne of droplets or particles to be produced in a month.

For more information, visit www.dolomite-microfluidics.com

About Dolomite Microfluidics

Established in 2005, Dolomite Microfluidics has grown to be the world leader in the design and manufacture of high quality innovative microfluidic products.

The company offers a range of microfluidic systems, components and specialist chemicals – including pumps, chips, connectors, temperature controllers, sensors, accessories and custom-made components – as well as software for analysis or automation.

Modularity, ease of use, innovation and scalability are common to all Dolomite Microfluidics products, which are used across a broad range of applications in biology, drug discovery, chemistry, food, cosmetics and academia.

Dolomite is a part of the Blacktrace group of companies, a world leader in Productizing Science®, and has offices in the USA, Japan, India, Brazil and Hanoi as well as a worldwide network of distributors.