



m2p-labs launches Next Generation of Controlled Microbioreactors

Baesweiler/Aachen, 8th October 2013 – m2p-labs launches a next generation microbioreactor technology, the BioLector[®] Pro, at the m2p-labs booth G20, Hall 9, at the BIOTECHNICA fair in Hannover during 8th-10th October 2013. With the presentation of the BioLector[®] Pro, m2p-labs sets a new standard for microbioreactors. With the integration of a new microfluidic chip fused to the microbioreactors, m2p-labs provides high-throughput and online monitoring as well as control of process parameters. For the first time, the BioLector[®] Pro can perform the process control and conditions of real world biotechnological production processes at micro-scale.

„A lot of customers are already waiting for the BioLector[®] Pro Technology and are now impatient to get it into their hands.“ reports Dr. Frank Kensy, Managing Director of m2p-labs, in regard to the market launch.

BioLector[®] Pro works with 32 parallel microbioreactors and 16 reservoirs for substrate- and pH-solutions at a micro-scale of 1-2 mL. The system uses online optical measurements of all standard fermentation parameters such as biomass concentration, pH- and DO-values as well as fluorescence in 32 parallel microbioreactors. In addition, the BioLector[®] Pro can control pH-values and run substrate feeding profiles individually to realize controlled fed-batch fermentations. The main advantage of using the BioLector[®] Pro is, that all 32 bioreactors and 16 reservoirs fit into the footprint of a standard microtiter plate and the whole microfluidic plate is available as a single-use reactor system and ready to use. Therefore, the set up time of the bioreactors can be reduced to almost zero and thus, the system's hardware can be used at a maximum of efficiency. The new microfluidic bioreactor system of BioLector[®] Pro is considered a new platform technology for bioprocess development. Applications such as clone screening, media- and fermentation optimization as well as bioprocess characterization can now be performed under controlled reaction conditions similar to production scale. The use of this new disposable technology promises to reduce working efforts, time and development costs.

With the development of the BioLector[®] Pro, m2p-labs directly responds to the demand from pharmaceutical, bio-based and chemical industry for controlled microfermentation systems, as well as achieves an important milestone in the history of the company. “This new generation of microbioreactors with integrated microfluidics paves the way for a new era of bioprocess development. The effort needed to run normal lab-fermenters is not necessary anymore. Scientists

want to receive meaningful process data and do not like to spend time cleaning, preparing and calibrating the bioreactors. The BioLector® Pro is a „Plug and Play“ system and generates all relevant fermentation data automatically under controlled and production-like conditions.“ describes Dr. Kensy.

m2p-labs anticipates a huge market potential for the new microfluidic chip technology. Fluid transport at micro-scale is a general need in life science R&D; therefore m2p-labs anticipates further markets in biotechnology and medicine. The expansion of application fields for the BioLector® Pro platform is an exciting area to grow the company in the coming years.

m2p-labs GmbH

m2p-labs is a worldwide leading supplier of microbioreactors. Based in Baesweiler near Aachen (Germany), the company was founded in November 2005 as a spin-off from RWTH Aachen University. The company focuses on microreaction and automated solutions for screening and bioprocess development. Commercialized products are the BioLector® and the FlowerPlate® which provide an intelligent micro fermentation platform. This technology empowers the biotechnology, chemical and pharmaceutical industry to increase their number and information of microbial and cell culture experiments. It enables our customers to conduct experiments with greater efficiency, better quality and lower cost than in any other cultivation platform. More knowledge from small scale leads to more rational and reliable decisions in the development of bioprocesses. The company continues to develop its technology towards controlled microbioreactors and further automation of the whole bioprocess. www.m2p-labs.com

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