

Press Release

European patent granted to m2p-labs for microbioreactor device

Specific microtiter plate for improved bioprocess development and online monitoring

April 17, 2018. The European Patent Office has granted a patent to m2p-labs of Baesweiler, Germany, for an innovative microbioreactor device to facilitate high-throughput bioprocess optimization in the life science market. 48 microbioreactors are placed on a standard microtiter plate which is about the size of a smart phone. This is key in order to optimize a multitude of cultivation conditions in parallel. m2p-labs is marketing this device under the trademark “FlowerPlate”®. The name is derived from the characteristic shape of the individual microbioreactors. The flower-like outline is ideal for gentle but effective shaking of the cultures, prime oxygen intake, and allows for the optical monitoring of parameters such as the pH-value, dissolved oxygen, biomass and fluorescence. The FlowerPlate can be combined with m2p-labs’ microfluidic technology allowing for an automated optimization of complex bio organism cultivating conditions. “Despite its miniaturized format, the FlowerPlate ideally mimics the cultivation conditions typically found in a shake flask” explained Dr. Christoph Petry, Chief Technology Officer at m2p-labs. “It allows for optimal mixing in the case of gas or liquid mass transfer. This significantly facilitates a scale-up at a later time - especially with cultures needing a large amount of oxygen,” he continued.



For further information, please visit our website at:

<http://www.m2p-labs.com/bioreactors/microtiter-plates/flowerplate/>

m2p-labs supplies microbioreactor systems focusing on microreaction and automated solutions for screening and bioprocess development. The product portfolio comprises the high-throughput BioLector® microfermentation system, the microtiter FlowerPlate®, and the automated cultivation RoboLector® platform. This online monitoring technology increases the number and the information content of microbial experiments, either aerobic, microaerophilic, or strictly anaerobic. Experiments are conducted in microscale, thus saving costs and resources. The RoboLector enables the automated fermentation of the whole bioprocess, with its specific integration of the BioLector tool into a liquid handling system.

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