

FlowerPlate®

Enlighten your Research with our Flowers

m2p
labs

High Oxygen Transfer
High-Throughput Fermentation
Real-Time Monitoring
Scalability



FlowerPlate®

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Your Cells Will Love It!

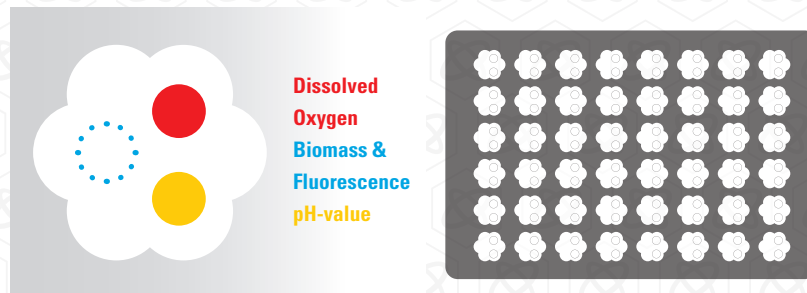
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A Unique Performance

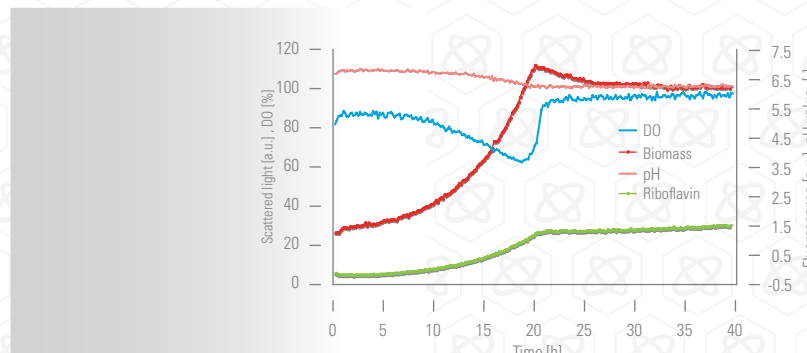
- High mass transfer
OTR > 0.11 mol/L/h ($k_L a > 600$ 1/h)
- Multiparameter reading possible
in 48 parallel bioreactors
- Wide volume range
(800 – 1500 μ L)
- Scalability to production fermenters
- No optical cross talk
- Effective mixing
- Continuous contact of liquids to optodes

The FlowerPlate® is a new microtiter plate which combines unique mass transfer performance with online measurements of the most relevant fermentation parameters. Based on a standard SBS footprint the flower geometry was picked out of more than 30 different well geometries. The flower shape acts similarly to baffles in shake flasks and increases mixing and gas/liquid mass transfer. It's performance surpasses all common microtiter plate formats providing a unique solution for cell growth and biocatalytic reactions.

Measurement Principle



Measurement Example



Ordering Info

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48 Well FlowerPlate®

incl. pH and DO optode / well	MTP-48-B0H
incl. DO optode / well	MTP-48-B0
incl. pH optode / well	MTP-48-BH
transparent bottom, without optodes	MTP-48-B
black bottom, for offline cultivation	MTP-48-OFF

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