

**FlowerPlate®**

Enlighten your Research with our Flowers

m2p  
labs

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



FlowerPlate®

# FlowerPlate®

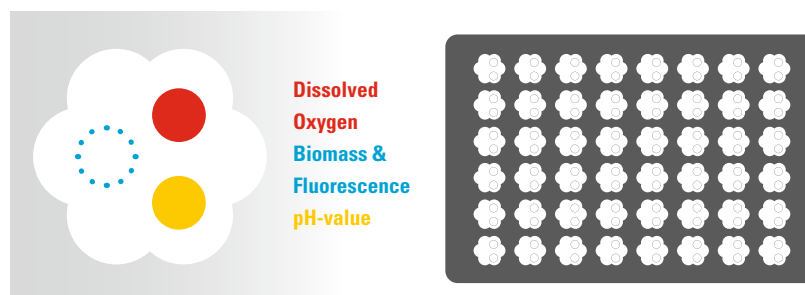
## Your Cells Will Love It!

### A Unique Performance

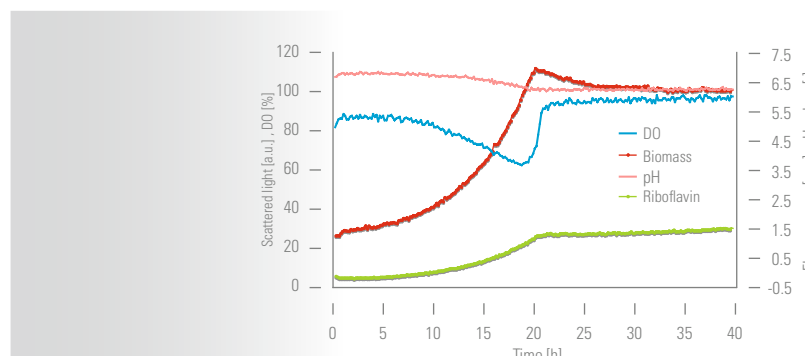
- High mass transfer  
OTR > 0.11 mol/L/h ( $k_L a > 600$  1/h)
- Multiparameter reading possible in 48 parallel bioreactors
- Wide volume range (800 – 1500  $\mu$ L)
- Scalability to production fermenters
- No optical cross talk
- Effective mixing
- No foaming or spilling
- Continuous contact of liquids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

EU: +49-2401-805-330  
order@m2p-labs.com

USA: +1-631-501-1878  
orderUS@m2p-labs.com

#### 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

#### EUROPE

m2p-labs GmbH  
Arnold-Sommerfeld-Ring 2 | 52499 Baesweiler | Germany  
Phone +49-2401-805-330 | Fax +49-2401-805-333  
info@m2p-labs.com

#### USA

m2p-labs, Inc.  
400 Oser Ave, Suite 1650 | Hauppauge, NY 11788 | USA  
Phone +1-631-501-1878 | Fax +1-631-501-1060  
infoUS@m2p-labs.com