

Twister III system platform

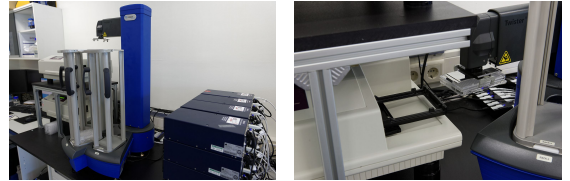
<https://search.labfacilities.wur.nl/SearchDetail.aspx?deviceid=3b76ee7a-d7d1-4878-b985-c6a12b245d33>

Brand

Perkin Elmer

Type

TwisterIII



Contact

Marcel Tempelaars (marcel.tempelaars@wur.nl)

Organisation

Agrotechnology and Food Sciences

Department

Food Microbiology

Description

The Twister III is an automated platform enabling high throughput growth data collection. The system contains 2 integrated SpectraMax 340PC384 Microplate readers and 12 Inheco MP shaking incubators. A robotic arm enables cyclic OD measurements. Incubators can be programmed to shake and have temperature settings ranging from ambient up to 80°C. Each of the incubators can be programmed individually. This system enables the collection of growth data of bacteria and yeast in 96 and 384 well format.

Technical Details

- 2 SpectraMax 340PC384 Microplate readers enabling measurements between 340-850 nm
- Compatible with standard 96- and 384-well plates
- Incubators can shake from 400 to 1800 rpm
- Temperature ambient to +80°C, heating from bottom contact surface
- Fastest cycle speed of 12 plates allows measurements each 25 minutes

Applications

Monitoring growth performance of bacteria/yeast. Following chemical processes compatible with SpectraMax wavelength range

Complementary Techniques

The automated platform can be combined with our BD FACS Aria™ III cell sorter. This would enable the sorting of single and other predetermined numbers of cells and cells from specific populations into 96/384 well plates containing appropriate media. Outgrowth kinetics can then be followed simultaneously in a wide range of conditions and temperatures.