

OD-Monitor A&S/C&T

The industry's first Non-contact turbidimeter that can measure the turbidity of sample at OD₆₀₀ while shaking. Adopted among the hundreds of R&D institutions. Operated with Bioshaker (Incubator shaker) in combination.

•"Bioshaker BR series" --> P.027-035 •Shaker "NR series" --> P.074-078



OD-Monitor A&S connected to 2 sets of ODSensor-S



OD-Monitor C&T

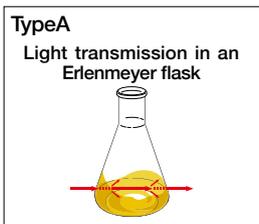
Features (common to B&L on the right page)

- The turbidity can be measured at OD₆₀₀ noncontact in the chamber (Patented)
- Measured and recorded per one test tube, one Erlenmeyer flask
- Operated with Bioshaker (Incubator shaker) in combination

Applications

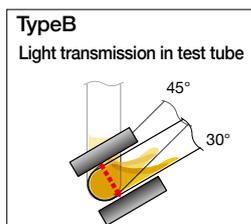
- Examination and screening of beneficial bacteria [ODM C&T].
- Labor-saving acquisition of growth curve
- Background reduction by sampling

In the study of small-scale Erlenmeyer flask expression



OD-Monitor A&S + BR-43LF

In screening and expression studies in test tubes



OD-Monitor C&T + BR-23FP

Model	OD-Monitor A&S	OD-Monitor C&T
Measurement method/range	Light transmission, 0.00 to 2.55 (OD ₆₀₀)	Light transmission, 0.00 to 2.55 (OD ₆₀₀)
Vessel and Fluid volume	Vessel: Glass Erlenmeyer flask Size: 100/200/300/500 mL Fluid volume: 20/40/60/100 mL	Vessel: Glass Test tube Size: φ16.5/18.0 mL Fluid volume: 5 mL or 10 mL
Shaking method	Orbital shaking	Reciprocal shaking
Shaking conditions	80 to 400 r/min (Shaking width 25 mm)/80 to 200 r/min (Shaking width 30/40 mm) 80 to 250 r/min (Shaking width 50 mm)	100 to 250 r/min (Shaking width 25/50 mm) Angle of Test tube 90/45/30°
Measurement intervals/channel	1/5/10/30/60/120/240 min, 1 to 8 (A&S)/1 to 8 (C&T) (*)	
Ambient temp. range	+15°C to +50°C	
Other functions	Alarm for specific value at OD, Transformation to Spectrophotometer in measurement value, USB flash drive (CSV file), Operation for pump unit (B&L) when above specified OD value	
Standard accessories for ODBox	Flat cable (2 m) ×1 pc, *For A&S, Power cable ×1 pc	
Standard accessories for ODSensor	Vibration absorbing pad of Flask (large and small) ×1 pc, Flat cable (0.5 m) ×1 pc	Magnet adapter (2 types) ×1 pc, Flat cable (2 m) × 4 pcs

(*A&S equipped with 1 channel per 1 set of ODSensor. Some number of ODSensor should be required depending on the number of samples. C&T equipped with 8 channels per 1 set of ODSensor can be connected with only 1 set of ODBox. ODSensor with maximum number of channels cannot be put in Bioshaker depending on its size. Ask us for details.

The capacity (number of installation and measurement) of ODSensor in Bioshaker BR-series

A&S and B&L: In BR-series the number of measurement of the unit equal to that of installation of the unit.

C&T: The number of measurement to the number of installation is by 8 times.

BR series	Shaking platform	Sensor-S	Sensor-L	Sensor-T (*)
BR-2X Series	MT-2925	3	1	2 (16 pcs, 2 Boxes)
BR-40 (**)/41/42/43/53	MT-4030	5	2	3 (24 pcs, 3 Boxes)
BR-300LF	MT-6040	8	4	5 (40 pcs, 5 Boxes)
BR-180 (**)/GBR	MT-7050	16 (2 Boxes)	5 (2 Boxes)	12 (96 pcs, 12 Boxes)
BR-3000 Series	MT-8060	20 (3 Boxes)	8 (2 Boxes)	14 (112 pcs, 14 Boxes)

(*)At 45° angle. (**)Up to 2 L of Erlenmeyer flask can be used with the BR-40LF. (**)Excluding BR-180LF-70RT.

Recorded data

OD BOX can record up to 360 points.

(Point=Total measured time ÷ Measurement interval)

The acquired data can be stored in a USB and output to PC In TXT format of CSV.

The turbidity is 0 at the start of measurement and display measured values.

It measures turbidity based on the size of E. coli, you need to correct the turbidity of targeted bacteria by spectrophotometer.