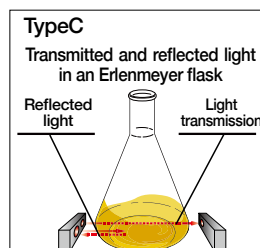


OD-Monitor B&L

**OD-Monitor B&L can be used with 1L-3L flasks.
Operated with Bioshaker (Incubator shaker) in combination.**

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

When used with the APU-01 pump (sold separately), the culture medium can be added and sampled at the specified OD.



For
1-3L flasks

OD-Monitor B&L
connected to
1 set of ODSensor-L



Reduction of manual background

It reduces the background caused by sampling in large Erlenmeyer flasks, which are inconvenient and time-consuming to handle.

By keeping the cells out of the flask chamber, it is possible to reduce stress on the cells during culture.

Released from the cumbersome turbidity measurement

Combined with the optional automatic pump unit [APU-01], sampling and reagent addition can be performed automatically according to a preset turbidity level.



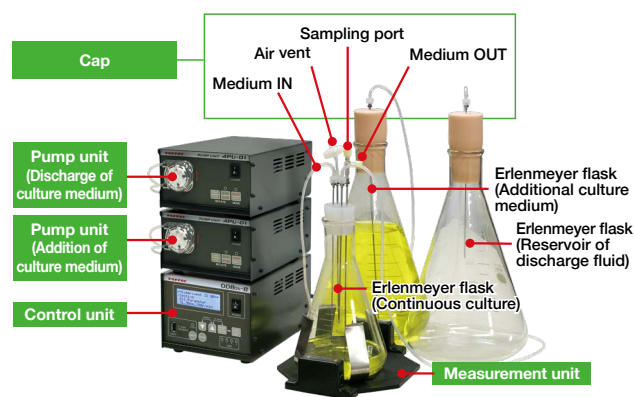
If the pump is set to the discharge side and the sample is received in a centrifuge tube, it is possible to sample at the specified OD value.

Model	OD-Monitor B&L
Measurement method/range	Light transmission/Reflected light, 0.00 to 9.99 (OD ₆₀₀)
Vessel and Fluid volume	Vessel: Glass Erlenmeyer flask Size: 1/2/3 L Fluid volume: 350/700/1000 mL
Shaking method	Orbital shaking
Shaking conditions	100 to 250 r/min (Shaking width 25/50 mm)
Measurement intervals/channel	1/5/10/30/60/120/240 min 1 to 4 (B&L) (*)
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
Power supply	AC100V-240V/1A (universal power supply)
Standard accessories for ODBox	Flat cable (2 m) *For A&S x1 pc, Power cable x1 pc
Standard accessories for ODSensor	Vibration absorbing pad of Flask (large and small) x1 pc, Flat cable (0.5 m) x1 pc

(*)B&L 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.

Product Name/Model	Remarks
Universal shaking platform MT-4030	Required for using BR-40/41/42/43 series with OD-Monitor series and Turbidostat system
Auto pump unit APU-01	For B&L. Starts to operate when a preset OD value is reached in ODBox-B. It can be used for automatically addition of IPTG and sampling. Manual operation can also be performed.

OD-Monitor for Continuous culture system



OD-Monitor Turbidostat system B
(The component units/parts are highlighted in green.)

Realizes Small scale continuous culture at low cost

Simple continuous incubation with constant turbidity can be performed using the OD-Monitor and APU-01 automatic pump unit. Because it is conducted with an Erlenmeyer flask, continuous incubation can be performed on a small scale and at a low cost, reducing cleaning labor and incubation costs.

Model	OD-Monitor Turbidostat system A	OD-Monitor Turbidostat system B
Measurement method	Light transmission	Light transmission/Reflected light
Measurement range	0.00 to 2.55 (OD ₆₀₀)	0.00 to 9.99 (OD ₆₀₀)
Vessel and Fluid volume	Glass Erlenmeyer flask Size: 100/200/300/500 mL Fluid volume: 20/40/60/100 mL	Glass Erlenmeyer flask Size: 1/2/3 L Fluid volume: 350/700/1000 mL
Shaking conditions	Orbital shaking 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)	Orbital shaking 100 to 250 r/min (Shaking width 25/50 mm)
Measurement channel	1 to 4	
Ambient temp. range	+15°C to +50°C	
Composition at 1 Channel	Control unit x1 pc, Measurement unit x1 pc, Pump unit 2 x pcs, Turbidostat cap x1 pc (with Pre-assembled Fluid feeding tube and Needle)	

•The tubing to be used should be a Tygon or PharMed tube. The standard thickness for the rollers is up to φ4.2 mm for the outer diameter.