

Please enter these **calibration parameters** and the **Lot No.** into the BioLecton software!

DO calibration parameters Lot No. 2007181 (BioLector® II, filter module ID-203/-403)

Temperature	20°C	21°C	22°C	23°C	24°C	25°C	26°C
ϕ cal0	72.72	72.68	72.65	72.61	72.57	72.53	72.50
ϕ cal100	44.75	44.54	44.34	44.14	43.93	43.73	43.53
Temperature	27°C	28°C	29°C	30°C	31°C	32°C	33°C
ϕ cal0	72.46	72.42	72.39	72.35	72.31	72.28	72.24
ϕ cal100	43.32	43.12	42.92	42.71	42.51	42.31	42.10
Temperature	34°C	35°C	36°C	37°C	38°C	39°C	40°C
ϕ cal0	72.20	72.17	72.13	72.09	72.06	72.02	71.98
ϕ cal100	41.90	41.70	41.50	41.29	41.09	40.89	40.68

DO sensor properties

Dynamic range	0 - 100 % air saturation (a.s.)
Resolution	Up to 0.1 % O ₂ (software)
Accuracy	± 5% dissolved oxygen (batch calibration)
Drift at 0% oxygen	< 0.5% O ₂ per day (sampling interval of 6 min)
Response time (t ₉₀)	< 30 s
Temperature range	5 – 50°C
Sensor stability	sensor material can be degraded by some microorganisms
Cross-sensitivity to	Organic solvents, such as acetone, toluene, chloroform or methylene chloride, Chlorine gas; high concentration of fluorescent molecules in the visible range can interfere (mCherry, tdTomato, dsRed, Nile red); complex media can cause a DO-shift
Basic material	Oxygen sensor PSt3-HG-1810-01_2 (at least stable for 7 days with CertiPUR-buffer) DO sensors are light-sensitive; please protect them from direct light!

DO calibration

Calibration	0.5 M Sulfite system (Two-point calibration with oxygen-free environment (sodium sulfite) and air-saturated environment)
Settings	BioLector protocol = HP8-PSt3-calibration, T = 20-40 °C, 800 rpm, 1000 µL/well, shaking diameter 3 mm, MTP-type = Flower Plate (MTP-48-BOH1)
Calibration device	Hardware ID: BL-09-000F-0032
Calibration phase offset	DO -360.26(DO Ser.4103, gain 7)
Date of calibration	2020/08/05

Sterilization procedure

Sterilization	Beta irradiation (20 kGy)
BGS-certificate No	787233
Date of sterilization	2020/07/30

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