

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

DO calibration parameters Lot No. 2005181 (BioLector® II, filter module ID-203/-403)

Temperature	20°C	21°C	22°C	23°C	24°C	25°C	26°C
φ cal0	71.50	71.44	71.39	71.34	71.29	71.23	71.18
φ cal100	43.58	43.35	43.11	42.88	42.64	42.41	42.17
Temperature	27°C	28°C	29°C	30°C	31°C	32°C	33°C
φ cal0	71.13	71.08	71.02	70.97	70.92	70.87	70.82
φ cal100	41.94	41.70	41.47	41.24	41.00	40.77	40.53
Temperature	34°C	35°C	36°C	37°C	38°C	39°C	40°C
φ cal0	70.76	70.71	70.66	70.61	70.55	70.50	70.45
φ cal100	40.30	40.06	39.83	39.59	39.36	39.13	38.89

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 (t90)	< 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-BO1)
Calibration device	Hardware ID: BL-09-000F-0032
Calibration phase offset	DO -360.53 (DO Ser.4103, gain 7)
Date of calibration	2020/06/05

Sterilization procedure

Sterilization	Beta irradiation (20 kGy)
BGS-certificate No	754295
Date of sterilization	2020/04/20

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