Figure 1: experimental setup used to estimate the flux of oxygen diffusion from headspace to culture medium (a), dynamic of O₂ concentration (b) and dynamic of O₂ flux between headspace and medium (c) by considering the average O₂ consumption rate from oxygraph measurements in the experiment P (250 µM.h⁻¹, see text) and the equation of gas transfer.
Figure 2: experimental setup used to estimate the flux of oxygen diffusion from headspace to culture medium (a), dynamic of $O_2$ concentration (b) and dynamic of $O_2$ flux between headspace and medium (c) by considering the $O_2$ consumption rate from the mass balance equation for the experiment P (18 µM.h$^{-1}$, see text) and the equation of gas transfer.

Figure 3: experimental setup used to estimate the flux of oxygen diffusion from headspace to culture medium (a), dynamic of $O_2$ concentration (b) and dynamic of $O_2$ flux between headspace and medium (c) by considering the $O_2$ consumption rate from the mass balance equation for the experiment B (65 µM.h$^{-1}$, see text) and the equation of gas transfer.