



**Supplementary Figure S1:** Characterization of  $\beta$ -glucan production in high-density cultures of *M. salina* in different growth stages. The panels show the production of  $\beta$ -glucans in an exponential phase and at 0, 1, 2, 4, and 8 days after the total exhaustion of nitrogen in the culture medium, expressed in a percentage relation by the dry biomass of microalgae. ANOVA statistical analysis were performed ( $p < 0.05$ ), "a", "b", "c", and "d" denotes significant differences between groups.