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Inoculum preparation for Mixotrophic culturing

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Bruna Emerenciano¹, Maria Izabel Pereira Batista¹,
Adriano Henrique Rangel¹

¹Universidade Federal do Rio Grande do Norte

Bruna Emerenciano

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- 1 Prepare the inoculum from *Spirulina platensis* strain to inoculate 800 mL of Zarrouk medium contained in 1000 mL Erlenmeyer flask.
- 2 Supplement the Zarrouk medium with 2.5%, 5.0% and 10% clarified buffalo mozzarella cheese whey. The components of Zarrouk medium (per liter) are as follows: 16.8g NaHCO₃, 0.5g K₂HPO₄, 2.5g NaNO₃, 1.0g K₂SO₄, 1.0g NaCl, 0.2g CaCl₂, 0.04g MgSO₄•7H₂O, 0.08g EDTA, 1ml of A5 solution, 1ml of B6 solution.
- 3 Keep the inoculum growing mixotrophically for 4 days on experimental apparatus under the same light intensities as the culture inoculated by it.
- 4 Keep the cultures under temperature of 25 °C and constant sterile aeration promoted by pumps (JAD Air Pump S-510) at a specific flow rate of 0.5 vvm (volume of air per volume of medium per minute), and the only light source from fluorescent lamps of 45 W with a luminous intensity of 238 $\mu\text{mol m}^{-2} \text{s}^{-1}$ measured by Q201 quantum radiometer (Macam Photo-Metrics Ltd., Livingston, Scotland).
- 5 Use a light regime of 12-hour light, 12-hour darkness