

## Impact of Unconventional Waters on Spirulina Production under Greenhouse Condition in Ouargla

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**Abstract :** The study of the habitat of Spirulina is the key to ensure the smooth running of its culture outside of its natural habitat. Our experimental work in the Ouargla basin which aims to study the Spirulina productivity cultivated under greenhouse in unconventional waters enriched and non-enriched, drainage and wastewater treated were used in the experiment. For this, we proceeded to measure the biomass concentration by the DO625. The high biomass concentration and productivity amount were in treated wastewater enriched with  $2.49 \pm 1.09$  and  $0.12 \pm 0.57$  respectively, while The high amount in drainage water were in medium enriched with  $2.19 \pm 0.85$  g/l and  $0.08 \pm 0.52$  g/l/d respectively. In spite of the enrichment and the good productivity of these waters, the chemical and microbiological qualities remain to study for a better valuation.

**Keywords :** Algeria, Ouargla, production, Spirulina, unconventional water

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