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Use of Raman microspectroscopy to detect changes in lipid pools of microalgae

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Raman spectroscopy was used to study the changes in lipid pools adapted by algae subjected to salinity dependent nutrient stress. The changes in the lipid in the algal cells cultured in varying salt concentrations were followed over a course of seven days. The Raman results showed prominent change in lipid pools. Raman spectroscopy demonstrates the potential to be an important technique in monitoring change in lipid pools due to salinity stress.

Keywords: *Raman microspectroscopy, lipid, algae, salinity*

