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TOXIC EFFECTS OF SALINITY AND SURFACTANT ON THE GROWTH
OF ALGAE, *CHLORELLA SP.*

BY

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ABSTRACT

The toxicity of surfactants was studied on green algae, *Chlorella* sp. in an artificial medium at different levels of salinity using static algal assay. The test algae were exposed to 2 types of anionic surfactants, alkyl benzene sulphonate (ABS) and linear alkylbenzene sulphonate (LAS). It was found that ABS was more toxic on algal growth than LAS at zero salinity, but was less toxic when salinity increased. Most of the inhibition occurred from 0.57 mg/l for both types of surfactants, and complete inhibition occurred at 27.59 mg/l and 27.34 mg/l for ABS and LAS, respectively.

The toxicity on chlorophyll a and chlorophyll b was also affected by salinity. Increasing salinity, LAS seemed to be more toxic than ABS.