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ABSTRACT

This work represents a comparative uptake study of the toxic elements arsenic, boron, copper, manganese and zinc in monometallic and multimetallic solutions by four green microalgae species (*Chlamydomonas reinhardtii, Chlorella vulgaris, Scenedesmus almeriensis* and an indigenous *Chlorophyceae* spp.), evaluating the effect of pH and contact time. Maximum removal efficiencies for each toxic element were 99.4% for Mn (*C. vulgaris,* pH 7.0, 3h), 91.9% for Zn (*Chlorophyceae* spp., pH 5.5, 3h), 88% for Cu (*Chlorophyceae* spp., pH 7.0, 10 min), 40.7% for As (*S. almeriensis,* pH 9.5, 3h) and 38.6% for B (*S. almeriensis,* pH 5.5, 10 min).