



Phytochemical Profile and Heavy Metals Contents of *Codium Tomentosum* And *Sargassum Hornschuchi*

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ABSTRACT

*Phytochemicals and heavy metals analysis of *Codium tomentosum* (green algae) and *Sargassum hornschi* (brown algae) were carried out with a view to assess their therapeutic values. The results showed that the bioactive compounds like alkaloids, flavonoids, tannins, glycosides and saponins were present. The tests were performed on different extracts with different polarity; the aqueous extract was the richest extract with secondary metabolites in both algae. Heavy elements concentrations in both algae were also investigated. The zinc concentration was found to be high; 131.3 and 194.2 ppm, in both algae. The micronutrients levels in both studied algae was in same order: Zn > Mn > Fe > Cu. The toxic metals levels were also similar in both cases in following order: Pb > Cd > Hg.*

Keywords: *Codium tomentosum* and *Sargassum hornschi*, Phytochemical Screening, Heavy metals.
