

PROXIMATE ANALYSIS AND FATTY ACID PROFILE OF
Hyophila rosea Williams AND *Vesicularia reticulata*

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ABSTRACT

Philippine mosses number about 506 species. *Hyophila rosea* Williams and *Vesicularia reticulata* are the two species that are found abundantly in Panay area.

Hyophila rosea Williams are medium sized plants in thin clusters with stems from 1-1.5 cm high. Proximately characterized to contain 17.82% moisture, 5.99% crude protein, 7.69% crude ether extract, 21.42% crude fiber, 18.21% ash and 46.69% nitrogen-free extract. Fatty acid profile are composed of twenty-nine (29) analytes, from which twenty (20) were not identified while nine (9) are known starting from Caproic acid (C₁₀) to Arachidic (C₂₀). Linoleic, palmitic, and oleic acids are the first three analytes comprising higher percentages.

Vesicularia reticulata on the other hand, are dull, yellowish green and the main stem is about 5 cm long. Proximately characterized to contain 12.73% moisture, 5.96% crude protein, 9.45% crude ether extract, 21.95% crude fiber, 32.67% ash and 29.96% nitrogen-free extract. Fatty acid profile are composed of forty-one (41) analytes, from which thirty two (32) analytes were not identified while nine (9) analytes are known starting from C₁₀ to

C₂₀.Linoleic, palmitic and linolenic acids are the first three analytes comprising higher percentages.