

Isolation and characterization of phytoconstituents from *Chlorophytum borivilium*

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ABSTRACT

Background The present communication deals with the identification and characterization of bioactive principles from the roots of *Chlorophytum borivilium*. **Method** Methanolic extract and its fractions were used to isolate different phytoconstituents. The structures of isolated compounds were characterized and elucidated with chemical and spectroscopic techniques such as Infra Red, Nuclear Mass Resonance and Mass spectroscopy experiments. Fatty acids were characterized by GC-MS analysis. **Result** Three Fatty acids were isolated and confirmed. One sterol stigmasterol was isolated. One new saponin named as Chlorophytoside-I (3 β , 5 α , 22R, 25R)-26-(β -D-glucopyranosyloxy)-22-hydroxy-furostan-12-one-3-yl O- β -D-galactopyranosyl (1-4) glucopyranoside was isolated. **Conclusion** The roots of *Chlorophytum borivilium* contain three important fatty acids, common sterol stigmasterol and one furostanol saponins.

KEYWORDS

Chlorophytum borivilium . Chlorophytoside-I . fatty acids . stigmasterol

REFERENCES

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