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Editors

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Lathif Penath, Mohammed Areej E. M. & Sheena P. A.**

Phytochemical and GC-MS/MS Analysis of *Strophanthus wightianus* Wall. ex Wight

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Background: *Strophanthus wightianus* Wall. ex Wight belongs to the family Apocynaceae and is well known for its medicinal properties. The present study was carried out to evaluate the Preliminary phytochemicals and possible bioactive components present in the methanolic extract of *Strophanthus wightianus* Wall. ex Wight stem and leaves.

Results: The phytochemical analysis of methanolic extract of *Strophanthus wightianus* Wall. ex Wight leaves revealed the presence of flavonoids, phenols, saponins, alkaloids, glycosides and terpenoids. The stem extract showed the presence of alkaloids, steroids, flavonoids, phenols, coumarins, glycosides, tannins and Terpenoids. The GC-MS/MS analysis carried out using methanolic leaf and stem extracts. It shows the presence of twenty-three bioactive compounds in leaf and twenty-nine compounds in stem. which include the main bioactive compounds like Paromomycin, Niacin, Methyleugenol, Iridomyrmecin, Apiol, phytol, Methyl nicotinate, Nicofuranose, 2,4'-Bipyridine, Desaspidinol and Methyl stearate.

Conclusion: The phytochemical and GC-MS/MS analysis of methanolic extract of *Strophanthus wightianus* Wall. ex Wight leaves and stem revealed the presence of bioactive compounds with important medicinal properties. Hence, the presence of these phytochemicals could be responsible for the therapeutic effects of the plant.

KEYWORDS: *Strophanthus wightianus* Wall. ex Wight, Phytochemicals, GC-MS/MS, Bioactive Compounds.



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