Bioactive Compounds Investigation and TLC Studies of Gymnema lactiferum Leaves

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Abstract: Gymnema lactiferum leaves are consumed in Sri Lanka as remedies for preventing diabetes. This plant belongs to Asclepiadaceae family and this study was carried out to identify the bioactive compounds that synthesis this plant. Alkaloids, flavonoids, steroids, saponins, quinones, cardiac glycosides, phenol compounds protein and carbohydrates were compounds which detected in methanolic extract of Gymnema lactiferum leaves. Obtained results of thin layer chromatographic analysis revealed that totally 44 spots were detected in four extracts for different solvent system. 12 bands were observed for acetone extract meanwhile, 13, 6 and 13 spots for ethyl acetate, hexane and methanol extracts respectively. Based on the results, Gymnema lactiferum leaves contained chemical compounds which have medicinal potentials.

Keywords: Gymnema lactiferum, Asclepiadaceae, Saponins, Quinones, Alkaloids.

W.D.M.H. Prabodhani /International Journal of ChemTech Research, 2019,12(1): 93-99.

DOI: http://dx.doi.org/10.20902/IJCTR.2019.120110

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