**Abstract**

In recent times, focus on plant research has increased all over the world. The therapeutic effect of these plants for the treatment of various diseases is based on the chemical constituents present in them. Medicinal plants provide affordable means of health care for poor and marginalised people. Ampelocissus is a genus of Vitaceae family. The FT-IR analysis of stem and fruit powder showed the alkanes, alkenes, alcohols, esters, amines, ketones, aldehydes. Despite its well- recognised medicinal and economic potential, there are no commercial plantations worldwide. Wild plants have continuously been used to meet the growing commercial demand in terms of their socio-economic value. Ampelocissus latifolia is the plant which may not be freely available in future due to over exploitation, habitat destruction or lack of domestication and cultivation. Since this plant species is an important ingredient of several medicines due to its usefulness, phytochemical investigation for isolation of important active ingredients through cell culture will be helpful.