**Abstract**

The Antifungal activity of different solvent extract of leaf and root powder of *Amplelocissus latifolia* was evaluated against *Aspergillus niger* and *Penicillium candidum.* The methanol, ethanol, hexane and acetone extract showed no zone of inhibition against both the organisms. The presence of protein was identified in phosphate buffer extract using Nin hydrin test and ELISA. The leaf and root extract contains 7.6ug/ul and 7.7ug/ul of protein respectively. The phytochemical studies showed the presence of Alkaloids, glycosides, carbohydrates, tannins and phenols in the leaf extract. The root extract contains only flavonoids . The FTIR analysis of root and leaf powder of *Amplelocissus latifolia* showed the presence of amines, amides alcohols carboxylic acids, nitric acids and phenols.