

Biochemical evaluation of root tubers and *in vitro* induced callus of adapathiyam (*Holostemma ada-kodien* K. Schum.)

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Abstract

Holostemma ada-kodien is a laticiferous climber belonging to the family Asclepiadaceae. The root tubers of the plant are medicinally important and are useful in ophthalmopathy, orchitis, cough, burning sensation, stomachalgia, fever and to cure 'tridosha'. The medicinal properties of *Holostemma* are due to the presence of terpenoid sugars and amino acids. This study deals with the preliminary biochemical analysis of root tubers and *in vitro* induced callus of *Holostemma*. Comparative analysis of amino acids shows no alteration in the primary metabolism in the callus. The metabolism of production of terpenoid compounds in the callus however shows alteration.

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