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QUANTIFICATION OF PHENOLIC ACIDS IN FRUITS OF *SOLANUM XANTHOCARPUM* FROM THREE AGROCLIMATIC REGIONS OF MADHYA PRADESH USING HPLC

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ABSTRACT: In the present investigation, mature fruits of *S. xanthocarpum* collected from three agroclimatic regions of Madhya Pradesh were subjected to HPLC analysis for quantification of selected phenolic acids i.e. Caffeic acid, Chlorogenic acid, Ellagic acid, Gallic acid and Vanillic acid. The results showed the presence of chlorogenic and vanillic acids only which varied from 0.227 to 0.516% and 0.039 to 0.156% respectively. Vanillic acid is reported first time in the fruits and is widely used in fragrances and licensed as a food additive. Many pharmacological activities are reported in respect of these phenolic acids which are the part of various pharmaceuticals, nutraceuticals and cosmoceuticals.

Key words: *Solanum xanthocarpum*, Fruits, Chlorogenic acid, Vanillic acid, HPLC analysis

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