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Evaluation of phytochemicals in different extracts *Cassia fistula* Linn. pods

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Background & Purpose: The presence of active chemical compounds in natural sources can help to target plants for their therapeutic activities. Here, chemical scrutiny of *Cassia fistula* through phytochemical testing was performed using different solvents and checked for presence of chemical classes present in it. The aim of study was to identify the possible therapeutic components in pods of *C. fistula* (fresh and dried forms) and their concentrations in following two different solvents methanol and distilled water.

Methodology: The crude extracts obtained from the young pods of *C. fistula* in methanol, aqueous extract and fresh juice were subjected to phytochemical testing.

Results: Chemical testing based phyto-constitutional examination confirmed the presence of flavonoids and saponin, tannin and glycoside, alkaloid in fresh juice, both methanolic extracts and aqueous extract, respectively. However, negative results were obtained in case of iodine and trace of glycoside in fresh juice and aqueous extract assured the effect of extracting solvent on chemical composition of plant.

Conclusion: The confirmation of phytochemicals in pods of *C. fistula* gave the positive directions for its medicinal uses that may serve as new therapeutic agent in bacterial infection, constipation, pain and diabetes.

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