

Comparison Of L- Dopa Content In Three Species Of Genus Mucuna By Different Extraction Techniques.

[Annals of Plant Sciences](#) 7(1) 2018 :1973 – 1977

ABSTRACT

In the present study, attempts are made to develop suitable method(s) for extraction of L-DOPA from the powdered seeds of 3 species of Mucuna using different solvents and conditions. The seed powder of both plants was subjected to 6 different extraction methods, with different solvent ratios. All the extracts were analyzed using RP-HPLC and was validated according to The International Conference on Harmonisation of Technical Requirements for Registration of Pharmaceuticals for Human Use guidelines. The L-DOPA extraction was best with Methanol Water mixture in a cold maceration technique and overall gives good extraction efficiency in all the three plants giving concentrations of 5.03%, 13.36 % and 16.78% of L-DOPA in Mucuna gigantea, Mucuna pruriens and Mucuna monosperma, respectively. The present investigation was done to study the extraction efficiency of various extraction methods of L-DOPA content in seed extracts of Mucuna and compare it.

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