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HPTLC METHOD FOR QUANTIFICATION OF VALERENIC ACID IN AYURVEDIC DRUG *JATAMANSI* AND ITS SUBSTITUTES

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Abstract

Objective of the present study was quantification of valerenic acid in rhizome of three plant species which is generally traded under the name of Jatamansi. A simple, rapid, cost-effective and accurate high performance thin layer chromatographic method has been developed for quantification of valerenic acid in *Valeriana jatamansi*, *Nardostachys jatamansi*, and *Selinum vaginatum*, which is one of the stable compounds and designated as a key marker compound. Separation and quantification of valerenic acid was achieved by HPTLC using ternary mobile phase of toluene: ethyl acetate: formic acid (80:20:5 v/v/v) on precoated silica gel 60F₂₅₄ aluminum plate and densitometric determination was carried out in λ_{280} absorption-reflectance UV mode by deuterium lamp.

Keywords:

[HPTLC](#)[Nardostachys jatamansi](#)[Selinum vaginatum](#)[valerenic acid](#)[Valeriana jatamansi](#)

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