



Journal of Liquid Chromatography & Related Technologies >

Volume 33, 2010 - [Issue 18](#)

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

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Pages 1679-1688 | Published online: 19 Nov 2010

Cite this article <https://doi.org/10.1080/10826076.2010.519250>

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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](#)

ACKNOWLEDGEMENT

The authors are thankful to the Director, National Botanical Research Institute, Lucknow, India for provision of the facilities to conduct the research work.

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