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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 $60F_{254}$ 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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