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Characterization , purification and identification of some Alkaloids in Datura stramonium (Article)

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Abstract

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This study aimed at investigating the presence of alkaloids and other chemical constituents in Datura stramonium (Saikaran, Jimson weed). All parts of the plant were dried, crushed and then underwent extraction by soxhlet and maceration methods. The solvents used in these methods were normal hexane (nonpolar) and ethanol (polar). Thin Layer Chromatography (TLC) and FTIR techniques were used to analyse the chemical components of jimson weed. The results showed the presence of hyoscyne in all plant parts while atropine in the seeds only. The best separation was found to be when the solvent system was acetone: water: ammonia (90:07:03). Maceration method is the best and cost effective procedure for extraction. © All Rights Reserved.

SciVal Topic Prominence ⓘ

Topic: Datura stramonium | Poisoning | tropane alkaloids

Prominence percentile: 67.607 ⓘ

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Author keywords

Atropine Datura stramonium FTIR Hyoscyne Seeds TLC

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