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Fitoterapia

Volume 77, Issue 6, September 2006, Pages 446-448

Evaluation of the antitussive effect of stigma and petals of saffron (*Crocus sativus*) and its components, safranal and crocin in guinea pigsHosseinzadeh, H.^a, Ghenaati, J.^b^a Pharmacology and Toxicology Department, Pharmaceutical Research Center, Faculty of Pharmacy, Mashhad University of Medical Sciences, Mashhad, Iran^b Faculty of Pharmacy, Mashhad University of Medical Sciences, Mashhad, Iran

Abstract

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The antitussive activity of *Crocus sativus* stigma and petal extracts and its components, safranal and crocin, was evaluated using the nebulized solution of citric acid 20% in guinea pigs. The extract and agents were injected intraperitoneally. The ethanolic extract of *C. sativus* (100-800 mg/kg) and safranal (0.25-0.75 ml/kg) reduced the number of cough. The ethanolic and aqueous extracts of petal and crocin did not show antitussive activity. © 2006 Elsevier B.V. All rights reserved.

Reaxys Database Information

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Author keywords

Anticough; Antitussive; Crocin; *Crocus sativus*; Safranal

Indexed Keywords

EMTREE drug terms: alcohol; antitussive agent; citric acid; codeine; crocin; *Crocus sativus* extract; safranal; unclassified drugEMTREE medical terms: animal experiment; animal model; antitussive activity; aqueous solution; article; controlled study; coughing; *Crocus*; *Crocus sativus*; drug activity; drug effect; drug screening; female; guinea pig; male; medicinal plant; nonhuman; petal; pistil stigma; priority journalMeSH: Animals; Antitussive Agents; Carotenoids; Citric Acid; Cough; *Crocus*; Cyclohexenes; Female; Flowers; Guinea Pigs; Injections, Intraperitoneal; Male; Phytotherapy; Plant Extracts; Terpenes

Medline is the source for the MeSH terms of this document.

Species Index: *Cavia*; *Crocus sativus*

Chemicals and CAS Registry Numbers: alcohol, 64-17-5; citric acid, 126-44-3, 5949-29-1, 77-92-9, 8002-14-0; codeine, 76-57-3; crocin, 39465-00-4, 42553-65-1; Antitussive Agents; Carotenoids, 36-88-4; Citric Acid, 77-92-9; crocin, 42553-65-1; Cyclohexenes; Plant Extracts; safranal, 116-26-7; Terpenes

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Crocus sativus* L. (Iridaceae), saffron (II) | *Crocus sativus* L. (Iridaceae), le safran (II) (2012) *Phytotherapie

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