



CITRULLUS COLOCYNTHIS; FRACTIONATION OF METHANOLIC EXTRACT OF CITRULLUS COLOCYNTHIS FOR SPASMOGENS.

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ABSTRACT... **Objectives:** To evaluate the methanolic extract of *Citrullus colocynthis* and its different fractions for possible spasmogenic effects on rat's ileum model. **Study Design:** An experimental study. **Setting:** Department of Pharmacology, Institute of Basic Medical Sciences, Khyber Medical University, Hayatabad, Peshawar. **Period:** August 2016 to March 2017. **Methodology:** Different fractions i.e n-hexane, chloroform, Ethyl acetate, n-butanol and aqueous fractions of methanolic extract were tried in concentrations of 0.01, 0.03, 0.1, 0.3, 1.0, 3.0, 5.0, 10 and 15 mg/ml to identify the portion with maximum spasmogens. **Results:** Aqueous and n-Butanol fractions showed spasmogenic effects on the spontaneous contractions of rat's ileal preparations at the concentrations of 0.1, 0.3, 1.0, 3.0 and 5.0 mg/ml while at 10 and 15 mg/ml, they showed spasmolytic effects. Ethyl acetate and chloroform fractions did not show significant spasmogenic effects, rather showed spasmolytic effects in rabbit's jejunal preparations with respective EC50 values of 0.1263 ± 0.007 mg/ml and 2.703 ± 0.235 mg/ml. Respective EC50 values for spasmolytic effects of Ethyl acetate and chloroform fractions upon KCl induced contractions were 5.37 ± 0.515 mg/ml and 12.36 ± 1.484 mg/ml. Respective EC50 ($\log [Ca^{++}]$ M) of ethyl acetate fraction at 1mg/ml vs control were -2.563 ± 0.04 and -2.846 ± 0.035 . Similarly, respective EC50 ($\log [Ca^{++}]$ M) in the absence and presence of $0.1 \mu M$ verapamil were -2.45 ± 0.06 and -1.7 ± 0.07 . EC50 ($\log [Ca^{++}]$ M) for control vs chloroform fraction at 3 mg/ml and 5 mg/ml were -2.95 ± 0.035 vs -3.02 ± 0.03 and -3.06 ± 0.0264 , respectively. Similarly, respective EC50 ($\log [Ca^{++}]$ M) in the absence and presence of $0.1 \mu M$ verapamil were -2.45 ± 0.06 and -1.7 ± 0.07 . **Conclusion:** Thus, it is concluded that spasmogens concentrated in the residual aqueous fraction followed by n-butanol fraction while spasmolytic constituents are concentrated in the ethyl acetate fraction followed by chloroform fraction.

Key words: Fractionation, *Citrullus Colocynthis*, Spasmogens.

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INTRODUCTION

Citrullus Colocynthis is an ancient herbal plant, commonly called as the Colocynth, Bitter cucumber or Bitter apple. Basically, it is a perennial herb which is mostly found in Khyber pakhtunkhwa, Punjab and Sindh regions of Pakistan.¹ It is also found in Central and Southern parts of India, various parts of Arabia, western Asia and tropical Africa. It usually exists in Mediterranean regions and Coromandal coast. As far as phytochemical constituents of *Citrullus colocynthis* are concerned, several experimental studies have shown that pulp of fruit contains colocynthin, colocynthein, colocynthetin, iso-vitexin, iso-orientin and pectin gum. Seed

contains 17% fixed oils (stearic, myristic, palmitic, oleic, linoleic acid), 6% albuminoids, 8.25% proteins (lysine, leucin, methionine), vitamins (B1, B2, niacin) and minerals (Mg, Ca, K, Mn, P, Fe, Zn).^{2,3} Pharmacologically, *C. colocynthis* has got anti-inflammatory, anti-candidal, anti-bacterial, anti-oxidant, anti-proliferative, anti-fertility, anti-aloppecia and growth inhibitory activity on breast cancer cells.^{4,5,6} It is also useful as hypoglycemic, mosquito larvicidal, hypolipidemic and analgesic agent.^{7,8,9} *C. colocynthis* is of great medicinal value. Fruits of *Citrullus colocynthis* are effective as anti-pyretic, anti-ulcer, anti-helminthic, anti-asthmatic, purgative and carminative. It is useful in the treatment of jaundice, ascites, splenomegaly,

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