

IRIS

Journal for Young Scientists ISSN 2278 – 618X (Print) ISSN 2278 – 6384 (Online)

© Patna Women's College, Patna, India http://www.patnawomenscollege.in/journal

Phytochemical compound from *Coccinia indica,* its relevance to antimicrobial and anti-inflammatory activities

• Rashmi Kumari • Jaya Keshri • Anushka

Isha Gaurav

Received : November 2016
Accepted : March 2017
Corresponding Author : Isha Gaurav

Abstract : The present study attempts to evaluate the phytochemical constituent of aqueous, ethanol and methanol extract of leaves of Coccinia indica. The phytochemical screening which involves both the qualitative and quantitative analysis revealed either the presence or absence of secondary metabolites; Alkaloid ,Tannin, Saponin, Protein, Phenol, Terpenoid, Flavonoid in all the three extracts of C.indica.

The leaf extract of this plant shows antimicrobial activities against common pathogen by agar-well diffusion method. The sample extract were used against Staphylococcus spp and Aspergillus spp. Methanolic extract of C.indica leaves showed zone of inhibition.

Rashmi Kumari

B.Sc. III year, Botany (Hons.),

Session: 2014-2017, Patna Women's College,

Patna University, Patna, Bihar, India

Jaya Keshri

B.Sc. III year, Botany (Hons.),

Session: 2014-2017, Patna Women's College,

Patna University, Patna, Bihar, India

Anushka

B.Sc. III year, Botany (Hons.),

Session: 2014-2017, Patna Women's College,

Patna University, Patna, Bihar, India

Isha Gaurav

Asst. Prof., Deptt. of Botany,

Patna Women's College, Bailey Road,

Patna - 800 001, Bihar, India.

E-mail: ishagaurav86@gmail.com

In the leaf extract of C.indica anti-inflammatory property have also been noticed. During this study the presence of heavy metals were noticed in small quantity.

Keyword: Coccinia indica, Alkaloid, Tannin, Flavonoid, Phenol.

Introduction:

There are hundreds of medicinal plants that have a long history of curative properties against various diseases and ailments. However, screening of plant for their activity is very essential and needs urgent attention in order to know the value of the plant. (Syed et.al. 2009)

Coccinia indica belongs to the family cucurbitaceae, commonly called little gourd. It is indigenous to Bengal and other parts of India. The plant has been used extensively in ayurvedic and unani practice in the Indian subcontinent. (Khadabadi and Deokate 2012). It is an annual creeper which is found spreading on ground and twining around the trees. Leaves are triangular or pentagonal in shape.