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"STUDIES OF CASSIA SOPHERA LINN MEDICINAL PLANT"

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ABSTRACT

The present investigation was done on medicinal plant "CASSIA SOPHERA" in different times in Department of Botany Bodh Gaya From Sample I investigate Flaouids alkaloids,steroids, Benzene, Acetate, 168 Trihyorosy -3- Methyl anthraquinone and emodin which has medicinal properties after concentration and use in unani Ayurvedic, Homeopathic and in Allopathic Medicine for treatment antiviral antifungal, antiallerigic, antibacterial etc-

KEY WORDS

Cassia, Sophera plant, Medicinal properties, chemical para meter, isolation purification, elucidation.

India is place of rich medicinal plant study on such plants since time immemoriall time to time method of treatment used by people from erly vaidic to present time.

Plants are main source of sevesal thousands of medicine all over the world

In recent time new techniques methods of isolation purification and structure elucidation enable us to find out particular ingredients for treatment of a particular desease.

Cassia genus has large tropical species around 600 species it is found as herbs shrubs and trees in which 5o species in India in which some found in Gaya and its Surrounding.

It is used as antioxidant antviral antifungal antiallergic antibacterial and antipyretic medicine

OBJECTIVE

The objective of present investigation has been made to understand the medicinal properties by finding chemical characteristics and provide cheap medicine.

STUDY AREA

Selected jay prakash udyan bodhgaya in gaya district in bihar which is 5 km away From Gaya Town and Garden of Department of Botany in magadh Univesity Campus Sample was collected during may 2019.

RESEARCH PAPER

The Aalysis of Anthroquinones, bianthraquinones, leueoanthocyanins,flavanoids benzene, ethyl aeetate from sample testing kit supplied by nice chemical (P) ltd Cochin kerala.

Samples are collected from M.U Botany Department Campus and Jay Prakash Udayan in Bodh Gaya By the help of udayan authority sample collected at 11 AM deu to got health plant. Each sample I kept in sterlised poly bag and sealed it. experimed I done withen 3 Days from sample collection but some experiment done within 6 Hours.

PHYSICAL CHARACTERISTICS

At away from sunlight and humid area.

CHEMICAL CHARACTERISTICS

Bianthraquinones along glucosides found in species with C- C linkage in bark, stem, leaves seed even flower contain it.

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Flavanoids also present in cassia sophera shikmic acid path is most plausible route for biosynthesis of Biduinones.

Flavonoids with glycosides occur in cassia genus.

- ✓ Shikimic acid - Prephenic acid- phenylpyraie acid
- ✓ Phnylalanine - Cinnamic acid

RESULT

I- Cassia Javanica (Flower) yeids four flavonoids. I isolate and characterize the chemical constituents from pods of cassia sophera are following.
Compound:-

A1 - B Sistosterol
A2 - Chrysopanol
A3 - Physcion
A4 - Emodin
A5 - 1,7,8, Trihydroxy – 4,6 dimethoxyl – 2-methyl anthraquinone 3-0-B-D(+) – Galacropyranoside.

II- From air aried 2.5 kg material taken in SOXHLET EXTRACTOR uring solvent petroleum, ether, benzene, ethye acetate in a succession until a fresh extract (colorless) found.

III- Conclusion –

1. Extraction done allording to standard method.
2. Higher concentration has high medicinal value.

SUGGESTION

Extracted material investigate on living animal for its effectness.

REFERENCE

1. N.K Yadav Balwant Ray Yaswant Thesis in 1999 M.V. Bodh Gaya.
2. Tiwari R.D & Shasma M.. Planta Media 43 (4) 381 – 383(1981)
3. Duggal J. Kaur Yadav V.S. & Mishra K. Planta Media A5(1) 48- 50 (1982)
4. Bloom H. Briggs L.H. & Cleverley B.J. Chem Soc 178(1959)