

2nd International Conference

Organized By

Ambe Durga Education Society's

Dadasaheb Balpande College of Pharmacy

(Degree and Diploma),

Near Swami Samarth Dham Mandir, Besa,
Nagpur-440037, Maharashtra, India.

**on 14th and 15th
February 2020**

Theme:

**"Invigorating Research in
Pharmaceuticals:
Reasonable Industrial Approach"**

Venue: Hotel RE-GEN-TA,
CENTRAL Nagpur.
Jagnade Square,
Nandanvan, Nagpur,
Maharashtra, India.

Souvenir and Abstract Book

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SYNTHESIS AND CHARACTERIZATION OF SOME NEW THIAZOLO [1,2-A]PYRIMIDINE-4-ONE DERIVATIVES

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ABSTRACT

Some new substituted thiazolo[1,2-a]pyrimidine derivatives have been reported various pharmacological activities like analgesic and anti-microbial. Prompted by the diverse pharmacological activities of pyrimidines and continuation of our research for more potent activity of pyrimidine derivatives, we had plan to synthesize a new series of pyrimidine-4-one derivatives, bearing different functional moieties. An attempt has been made to insert the thiazolo moiety in pyrimidine derivatives for activity reinforcement. A series of 3-cyano-2-propyl-4-oxo-4H-Substituted Thiazolo[1,2-a]Pyrimidine has been synthesized through the Cyclocondensation of the corresponding procedure with Dimethylformamide and Triethylamine, respectively in good yield and the Physicochemical Characterization also carried out. The compounds 1a and 2a exhibited Analgesic activity superior to that of the standards, Ibuprofen. These compounds also exhibited significant Anti-microbial activity comparable to that of sulphonamide.

Keywords 3-cyano-2-propyl-4-oxo-4H-Substituted thiazolo[1,2-a]pyrimidine; Analgesic activity; hot plate method; Antimicrobial activity; agar diffusion method.

CHARACTERIZATION AND QUANTIFICATION OF ISOLATED OLEANE SAPONINS FROM LUFFA ACUTANGULA SEEDS EXTRACT

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ABSTRACT

Luffa acutangula (LA) belongs to Cucurbitaceae family. The seeds possess purgative, emetic and anthelmintic, antihepatotoxicosis, antiviral activities. The present investigation deals with isolation, characterization and quantification of bioactive constituents. The olean type of saponin was isolated by column chromatography by using silica (60-120 mesh) as stationary phase and elution mixture ethyl acetate: methanol 30:20. The purity and quantification of isolated saponin was determined by linear regression method by Camag HPTLC assisted by Linomat V and Wincat software. The solvent system was optimized as butanol: acetic acid: water (5.5: 3.5: 1), visualizing agent-anisaldehyde in H₂SO₄. The EI- MS (positive ion mode) of isolated constituent displayed quasi-molecular ions [M+H]⁺ at m/z 926.3. The presence of three-anomeric proton of sugar moieties was confirmed by ¹H NMR (D₂O) signals at δ 4.91, 5.34, 5.35. The chemical shift ¹H NMR signals δ 3.65 - 3.94 indicated the presence of sugar moieties. The ¹H NMR spectrum displayed signal δ 5.45 designated to the olefinic distorted triplet only present olefinic distorted triplet for the H-12 in pentacyclic triterpenes and δ 9.61(s) showed for aldehyde proton. IR (KBr) cm⁻¹: 3320 cm⁻¹ (O-H), 2960, 1734 (COOR), 1640 (C=C), 1725 (C=O) of aldehyde, 1260, 1065 (C-O-C) stretch of O-glycosidic linkage. Spectral data indicated that isolated constituent contains olean type of triterpenoid glycoside.

Keywords olean, triterpenoid, luffa