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SUSTAINABLE DEVELOPMENT

Environmental Sensitivity and Sensitivity and Sustainable Development

Department of Science and Nursing

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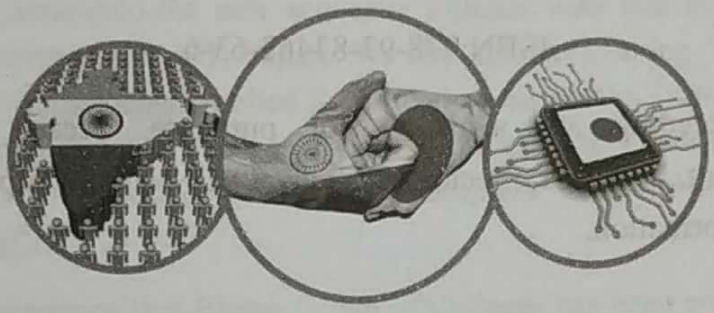

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e above compounds was also employed in the present work. Cyclic voltammograms of alpha-none, beta-ionone, 4-methoxy chalcone and 4'-methoxy chalcone were recorded at different pH .0, 7.0, and 9.0) to establish the optimum conditions of the reduction. The electrochemical duction of alpha-ionone, beta-ionone, 4-methoxy chalcone and 4'-methoxy chalcone was reafter carried out galvanostatically at pH = 9.0 using stainless steel (SS-316) as a working ctrode.

both of the above reduction methods applied, selective reduction of C=O moiety was achieved. tically active products, thus obtained in good yields (75-90%) were then isolated, purified and aracterised by combined application of chromatographic and spectroscopic techniques. These ducts find extensive applications in perfume formulations as well as in perfumed articles and ognes, depending upon many factors including the other ingredients, their concentration, etc. ha-Ionol is used in cosmetic fragrances and also has pheromonal activity. beta-ionol is used as clear hormone receptor compound for the treatment of cancer and skin disorders. beta-ionol is o used as an antioxidant against the toxic effects of thiophenol. It is also used as a bactericidal nt for oral cavity against Porphyromonasgingivalis and hence it is used in the formulations of thpastes, liquid dentifrices, mouthwashes, etc.

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Radiation Hygienization of Fish Waste

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stract:

hery processing industries generate large amounts of by products .The disposal of these stes represents an increasing environmental and health problem.To avoid wasting of these by ducts application of gamma radiation for hygienization of Fish waste was studied.Fish waste s subjected to various doses of gamma radiation i.e. 5kGy,10kGy,20kGy and incubated at 4 and 27 °C .Radiation processed samples were examined for microbial counts as well as chemical parameters Total volatile basic nitrogen,TCA soluble peptides,lipid peroxidation d protease activity.A dose of 20kGy was found to sterilize the waste and remained so at both bient and 4 °C for 20 days.Post irradiation at 5 kGy and 10 kGy samples stored at ambient mperature showed 3-4 fold increase in TVBN and constant value at 4°C C.TBA values were nd to be higher in irradiated sample and increased as a function of dose.No significant

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increase in TCA soluble peptides was could be observed during post irradiation storage.Effect of irradiation on activity of proteolytic enzyme Cathepsin D and Cathepsin L showed reduction in the activity during post irradiation storage by 50% and 40% respectively.Fish waste is a valuable underutilized by product of fish processing industry , radiation hygienization of fish waste can thus provide a sustainable source of proteolytic enzymes.

Key words: fish waste, radiation, proteolytic enzymes,Total volatile basic nitrogen.

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Assembling and Estimation of Herbal Congeal of *Boswellia Serrata* for the Executive of Appetite and Pharmocological Activity

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Abstract:

The herbal therapeutic has become an item of worldwide in both medicinal and economical in modern drug transportation. Herbal remedies are getting increasing patient consent as they are lacking of any typical side effect of allopathic medicines. In present study of our research deals with composed of Boswellia Serrata extract which are having anti inflammatory activity in the form of herbal gel for executive of congeal were formulated The drug has evaluated on the basis of solvability, UV spectroscopy, IR spectroscopy , HPLC, DSC study. Assembling was prepared by dispersion method. The preparation of herbal gel was subjected for preliminary evaluation such as P^H, viscosity, spread ability, skin irritation study, in artificial insemination drug release.

Boswellia Serrata is recommended for osteoarthritis, juvenile rheumatoid arthritis, soft tissue fibrosis and spondilytis without any side effect. Present review focuses on pharmalogical activities of Boswellia Serrata.

Key words: Boswellia serrata, Dispersion method, Congeal, Phamocological activity

Material and Method:

- Boswellia Serrata extract, methyl salicylate ,ethanol, sesame oil, was obtained as gift sample from Hamdard laboratories Bhopal (M.P.)

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