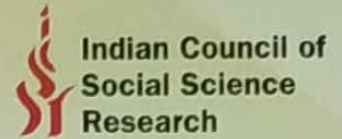


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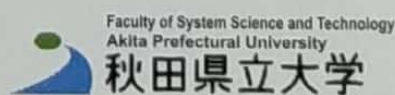
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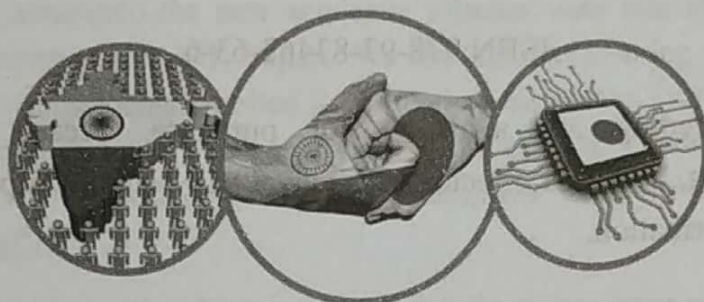
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Development  
The above compounds was also employed in the present work. Cyclic voltammograms of alpha-ionone, beta-ionone, 4-methoxy chalcone and 4'-methoxy chalcone were recorded at different pH (0, 7.0, and 9.0) to establish the optimum conditions of the reduction. The electrochemical reduction of alpha-ionone, beta-ionone, 4-methoxy chalcone and 4'-methoxy chalcone was thereafter carried out galvanostatically at pH = 9.0 using stainless steel (SS-316) as a working electrode.

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



## Radiation Hygienization of Fish Waste

**Shailaja. P. Palan**

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Abstract:

Food processing industries generate large amounts of by products. The disposal of these wastes represents an increasing environmental and health problem. To avoid wasting of these by products application of gamma radiation for hygienization of Fish waste was studied. Fish waste was subjected to various doses of gamma radiation i.e. 5kGy, 10kGy, 20kGy and incubated at 4 °C 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 and protease activity. A dose of 20kGy was found to sterilize the waste and remained so at both ambient and 4 °C for 20 days. Post irradiation at 5 kGy and 10 kGy samples stored at ambient temperature showed 3-4 fold increase in TVBN and constant value at 4 °C. TBA values were found to be higher in irradiated sample and increased as a function of dose. No significant

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.



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

**Sharif Khan<sup>1</sup>, P.C. Choudhry<sup>2</sup> and M.L. Gangwal<sup>3</sup>**

<sup>1</sup>PhD scholar at Mewar University Rajasthan; <sup>2</sup>Assistant Professor at Mewar University Rajasthan

<sup>3</sup>HOD Chemistry at Gujarati Science College, Indore

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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<sup>H</sup>, viscosity, spread ability, skin irritation study, in artificial insemination drug release.

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

**Key words:** *Boswellia serrata*, Dispersion method, Congeal, Pharmacological activity

### **Material and Method:**

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