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(54) Title: **DIARYLHEPTANOID BASED MEDICINAL PREPARATION AND METHOD OF PREPARATION OF THE SAME**

(57) **Abstract:** The disclosure pertains to a medicinal preparation having a mixture of diarylheptanoid complexes and essential oil of turmeric embedded in diarylheptanoid metal complex. It also discloses a method of preparation in which the complex is formed by the reaction of diarylheptanoids with a cation in the presence of oil. Diarylheptanoid metal complexes with embedded oil show improvement in the general health of avians and mammals. Improvements in avians and mammals health include reduced mortality, improved weight gain, improved meat quality, improved bone density, improved eggshell thickness, improved immunomodulatory activity, improved liver conditions, and reduced occurrence of drug-induced dyslipidaemia. It is also found that said medicinal preparation is very effective in the prevention of the incidence of udder inflammation and in the treatment of hypocalcemia, Alzheimer's disease, and stress related issues. It has antioxidant activity as well as improved analgesic properties.



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