

(54) Title of the invention : SUSTAINED RELEASE OF LEUPROLIDE ACETATE

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| <p>(51) International classification :A61K9/50, A61K47/10, A61K47/26, A61K47/34, A61K47/36, A61K38/00</p> <p>(86) International Application No :NA</p> <p>Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p> | <p>(71)Name of Applicant :</p> <p>1)Chitkara University Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----</p> <p>2)Chitkara Innovation Incubator Foundation Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Thakur Gurjeet Singh Address of Applicant :Chitkara College of Pharmacy, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura ----- ---</p> <p>2)Sonia Dhiman Address of Applicant :Chitkara College of Pharmacy, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura ----- ---</p> |
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(57) Abstract :

A sustained release system for delivering an active ingredient is described, which includes coated microspheres. Each microsphere consists of a core containing the active ingredient, poly(lactic-co-glycolic acid) (PLGA), polyvinyl alcohol (PVA), and mannitol, surrounded by a coating of either a lipid layer or a pH-sensitive polymer. This coating prevents premature release during storage or transit and allows for sustained degradation in vivo, ensuring sustained delivery of the active ingredient. The system is particularly useful for reducing the frequency of injections required for hormone-related treatments. Reference Fig 1

No. of Pages : 21 No. of Claims : 10