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(54) Title of the invention : PREPARATION AND CHARACTERIZATION OF
FLOATING MICROSPHERES PREPARED BY BIODEGRADABLE POLYMER

<p>(51) International classification :A61K0009000000, A61K0009500000, A61K0009160000, A61K0009280000, A61K0047140000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Pawan Singh Address of Applicant :Pharmacy Academy, IFTM University, Delhi Road, NH-24 Moradabad, Lodhipur Rajput, Uttar Pradesh, Pin Code: 244102 ----- -</p> <p>(72)Name of Inventor : 1)Dr. Pawan Singh Address of Applicant :Pharmacy Academy, IFTM University, Delhi Road, NH-24 Moradabad, Lodhipur Rajput, Uttar Pradesh, Pin Code: 244102 ----- 2)Dr. Navneet Verma Address of Applicant :Pharmacy Academy, IFTM University, Delhi Road, NH-24 Moradabad, Lodhipur Rajput, Uttar Pradesh, Pin Code: 244102 ----- 3)Mr. Alankar Shrivastav Address of Applicant :Pharmacy Academy, IFTM University, Delhi Road, NH-24 Moradabad, Lodhipur Rajput, Uttar Pradesh, Pin Code: 244102 ----- 4)Dr. Vijay Sharma Address of Applicant :Pharmacy Academy, IFTM University, Delhi Road, NH-24 Moradabad, Lodhipur Rajput, Uttar Pradesh, Pin Code: 244102 ----- 5)Mr. Mohd Junaid Address of Applicant :Assistant Professor Department of Pharmacy, Mohammad Ali Jauhar University Rampur, Uttar Pradesh, Pin Code: 244901 ----- 6)Ms. Megha Yadav Address of Applicant :Pharmacy Academy, IFTM University, Delhi Road, NH-24 Moradabad, Lodhipur Rajput, Uttar Pradesh, Pin Code: 244102 -----</p>
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	<p>7)Mr. Ritesh Kumar Tiwari Address of Applicant :Faculty of Pharmacy, Shri Ram Murti Smarak College of Engeneering & Technology, Bareilly, Uttar Pradesh, Pin Code: 243202. -----</p> <p>--</p> <p>8)Mr. Deepak Chaudhary Address of Applicant :Pharmacy Academy, IFTM University, Delhi Road, NH-24 Moradabad, Lodhipur Rajput, Uttar Pradesh, Pin Code: 244102 -----</p>
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(57) Abstract :

The present invention relates to the formulation of an oral dosage form of Arteether (ART), to enhance its bioavailability and to decrease the dosing frequency. A cross-linked Microspheres were prepared for delivery of Arteether by incorporation of Acetic acid as a dispersion agent and their surfaces were also modified by chitosan to improve their bioavailability. The prepared microspheres of arteether were evaluated for various parameters such as entrapment efficiency, Invitro drug release studies, and floating behaviour. Results microspheres have sustained release behaviour and good response. Floating microspheres of artheer had showed good floating ability/buoyancy (64 to 82 %) up to 10 hours with zero lag time. As the results, the system provides a potential opportunity in decreasing frequency of administration and improving patient compliance for drug delivery.

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