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(51) International classification	:A61K 33/30, A61P 35/00, A61K 31/565, A61K 47/02, A61K 9/14	(71)Name of Applicant : 1)JSS COLLEGE OF PHARMACY Address of Applicant :Post Box No. 20, Rocklands, Ootacamund, The Nilgiris - 643001, Tamil Nadu, India. (72)Name of Inventor : 1)Dr. Selvaraj Jubie 2)D. Melphiya 3)Dr. Natarajan Jawahar
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(57) Abstract :

The present invention relates to a novel Nano-formulation comprising fulvestrant-loaded zinc oxide nanoparticles (FUL-ZnO NPs) for the targeted treatment of HER2-positive breast cancer. The invention describes a controlled wet-chemical method for synthesizing zinc oxide nanoparticles, followed by high-efficiency loading of fulvestrant, achieving an entrapment efficiency and exhibit a particle size of about 400 nm and a zeta potential of -35 mV.

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