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(57) Abstract :

The aim of present invention is to resolve rapid clearance and high plasma protein binding and poor bioavailability problems. The Rutin trihydrate loaded Liposomes was formulated to enhance permeability and in vivo bioavailability. Best Liposomes F2, F4, F6 and F9 formulations were prepared and characterized for % drug entrapment, average vesicle size, zeta potential, FTIR and release kinetics. Best formulation F4 selected on the basis of entrapment and particle size which is 161.4 nm and 86.18±0.042. F4 formulation showed good physicochemical characteristics and has better kinetic results. The Liposomes stored at 4oC were found to be stable for duration of three months. It shows in vitro DPPH assay for antioxidant potential and used treatment of in vivo anti-inflammation activity and antipyretic activity.

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