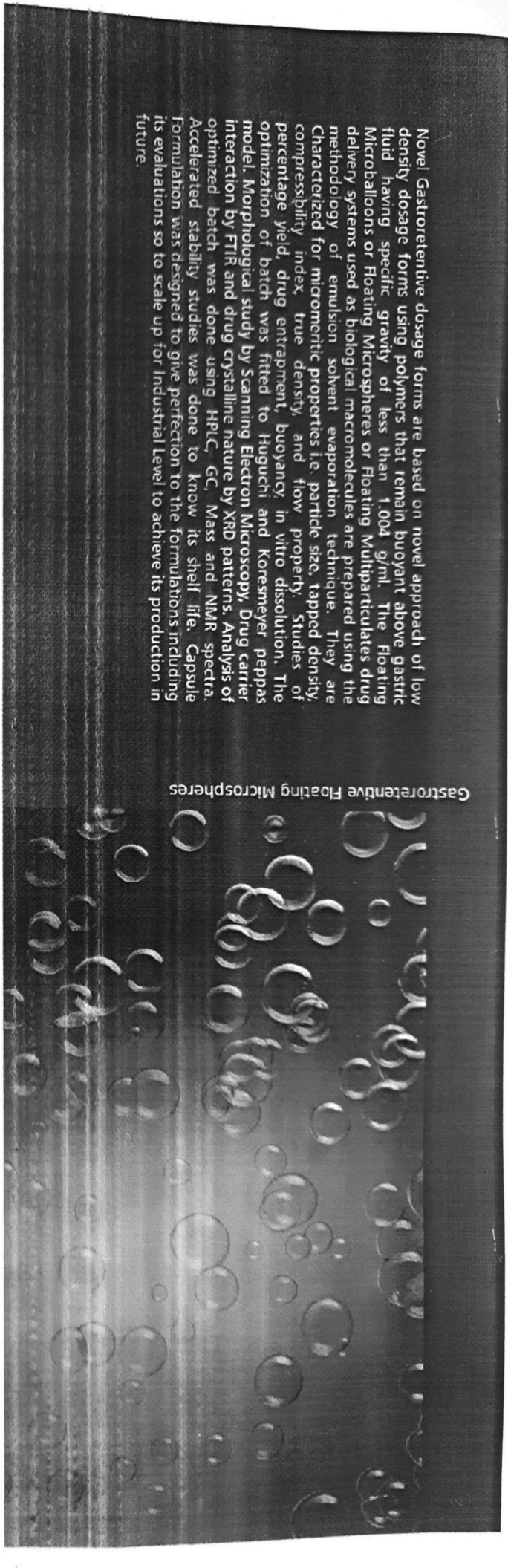


Novel Gastroretentive dosage forms are based on novel approach of low density dosage forms using polymers that remain buoyant above gastric fluid having specific gravity of less than 1.004 g/ml. The Floating Microballoons or Floating Microspheres or Floating Multiparticulates drug delivery systems used as biological macromolecules are prepared using the methodology of emulsion solvent evaporation technique. They are characterized for micromeritic properties i.e. particle size, tapped density, compressibility index, true density, and flow property. Studies of percentage yield, drug entrapment, buoyancy, in vitro dissolution. The optimization of batch was fitted to Higuchi and Korsmeyer peppas model. Morphological study by Scanning Electron Microscopy, Drug carrier interaction by FTIR and drug crystalline nature by XRD patterns. Analysis of optimized batch was done using HPLC, GC, Mass and NMR spectra. Accelerated stability studies was done to know its shelf life. Capsule Formulation was designed to give perfection to the formulations including its evaluations so to scale up for Industrial Level to achieve its production in future.



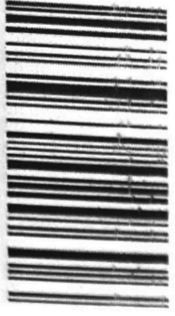
Gastroretentive Floating Microspheres

Prashant Upadhyay

Floating Microballoons : A study on gastroretention drug delivery system



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