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A Review: Microemulsions: A Potential Bioavailability Carrier

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Abstract : Microemulsions are dispersions of oil and water that are clear, transparent, and thermodynamicallystable,thatarestabilisedbyaninterfacialsurfactantcoating,sometimesin combination with a co-surfactant. Because of its improved drug solubilization capability, long shelf life, ease of preparation, and better bioavailability, microemulsion formulation has recently attracted a lot of attention for the delivery of hydrophilic and lipophilic drugs as drug carriers. We have discussed the benefits, drawbacks, kinds, structures, formulations, factors affecting formulation, preparations, characterisation, and medicinal applications of microemulsions in this review. The review is structured in such a way that a beginner to the area may quickly comprehend the key points of this revolutionary delivery mechanism.

Key words: Microemulsion, Surfactant, Co-surfactant, Characterization & Evaluation of Microemulsion, Pharmaceutical applications.

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