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A Review on Enhancing Lipophilic Drug Delivery: A Mechanistic Approach

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ABSTRACT: Self-nano emulsifying drug delivery systems are commonly known as SNEDDS are becoming more and more popular as a way to make hydrophobic medications more soluble. The limited proportion and speed at which drugs enter into systemic circulation making it accessible for therapeutic effect and their solubility effect are low highly permeable substances is addressed by Lipid based formulations. These nano emulsion preconcentrates blends of lubricants, surfactants, solvents, and secondary solvents. The main feature of nano emulsion precursor system is their capacity to form water emulsion with oil or suitable microemulsions with only a little stirring. These have a higher concentration of lipophilic surfactants and co-surfactants and a lower lipid content. Although liquid SNEDDS are typically prepared, a number of techniques have been devised to turn them into solid forms, including exuberant methodology, High pressure homogenizer, ultrasonic treatment method, phase inversion, pseudo ternary phase diagrams onto porous carriers, and freeze drying. Because of this technology's extensive development, oil-based formulations will provide innovative drug delivery applications.

Keywords: Bioavailability, Exuberant, Hydrophobic Medications, Microemulsion, Soluble.

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