

Potential Application of Emulsion Technology in Healthcare

There is a lot of promise for developing radiopharmaceutical carrier systems using emulsion technology. Radiopharmaceuticals, which aid in the diagnosis and treatment of several illnesses, including cancer, are crucial to nuclear medicine. A variety of widely accepted safe materials may be used to make particles with various compositions, sizes, forms, and surface properties, enabling their utility to be customized for particular purposes. The structure of emulsion formulation consists of an external phase and an internal phase. Oil in water or water in oil (i.e., O/W or W/O) emulsion and water in oil in water or oil in water in oil (i.e., W/O/W or O/W/O) triple emulsion are two forms of emulsions that may be differentiated based on the phases' structure and characteristics. Emulsion preparation methods are also suitable for use in medical applications since they are frequently simple, inexpensive, dependable, and scalable. The article highlights various potential applications of emulsion technology in the healthcare sector.

Condensed Matter Physics

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