

Sachan NK, Pushkar S. Solid dispersions: An industrially feasible alternative approach to formulate brick dust molecules. *Bull. Pharm. Res.* 2011;1(1):75-87.

**Abstract:** The enhancement of oral bioavailability of poorly water-soluble drugs remains one of the most challenging aspects of drug development. The solid dispersions have attracted considerable interest as an efficient means of improving the dissolution rate and thereby the bioavailability of poorly soluble therapeutic substances which were otherwise to be formulated through nanomiling or prodrug formation. This review compiles historical background, definitions as well as rationale and scope of the various solid dispersion systems, the formulation aspects along with different carriers and preparation methods, drug release mechanisms, characterization, advantages and limitations. The present article also addresses some alternative approaches to overcome certain limitations of solid dispersion technology which are responsible for its little commercialization.

**Key words:** Solubility enhancement, Drug delivery, Dissolution, Bioavailability.

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