

REVIEW ARTICLE

A COMPREHENSIVE REVIEW ON MULTI-DRUG COCRYSTALS

Monika Nijhawan^{aa}, Bhavana Jidige^a, Pavan Kumar Thota^a, Rajeswari Aleti^a and Neelima Rambakka^a

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ABSTRACT

Multi-drug cocrystals (MDCs) have gained increasing interest in recent times. They are also known as drug-drug cocrystals. MDCs offer a promising approach in pharmaceutical development, where two or more active pharmaceutical ingredients (APIs) are cocrystallized with a neutral coformer to create a new solid phase with unique physicochemical properties. This method provides a safe, cost-effective and highly rewarding pathway for the development of enhanced medications. The success of formulations such as Entresto[®] and Depakote[®] has sparked renewed interest in these multi-component systems. This article reviews recent reports and patents related to MDC, highlighting their progress and future prospects. By focusing on case studies and the latest advancements, the manuscript offers valuable insights into the potential applications of drug-drug cocrystals in improving the efficacy of multi-drug therapies and addressing challenges in pharmaceutical formulations.