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(57) Abstract :
ABSTRACT The present invention relates to a mouth-dissolving tablet formulation containing an anti-emetic drug, optimized for enhanced solubility and rapid onset of action using hydrotropic techniques. The formulation includes one or more hydrotropic agents that increase the solubility of the active pharmaceutical ingredient (API), allowing for quick dissolution in the oral cavity without the need for water. The tablet also contains superdisintegrants to facilitate rapid disintegration within 30 seconds, enabling immediate release and absorption of the drug. This novel formulation improves bioavailability and provides fast relief from nausea and vomiting, making it particularly suitable for patients with difficulty swallowing conventional tablets. Additionally, the tablet is designed to be stable under normal storage conditions for at least 24 months. The invention overcomes limitations of conventional methods by addressing poor solubility and delayed drug action, offering improved therapeutic efficacy and patient compliance.

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