IJARSCT
International Journal of Advanced Research in Science, Communication and Technology
International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal
ISSN: 2581-9429
Volume 5, Issue 12, April 2025
Impact Factor: 7.67

Formulation and Evaluation of Antidiabetic Tablet From Custard Apple Leaves

Sakshi Rajendra Tathe and Pallavi Sanjay Adagale
Samarth College of Pharmacy, Belhe, India

Abstract: *Diabetes mellitus is a chronic disease affecting carbohydrate metabolism, requiring effective long-term management. This research focuses on utilizing custard apple leaves, traditionally recognized for their antidiabetic potential, to formulate tablets using the direct compression method. The formulation included sodium starch glycolate, starch, acacia, and MCC as excipients. Comprehensive pre- and post- formulation evaluations confirmed acceptable pharmatechnical properties. These findings suggest that custard apple leaf-based tablets could offer a natural and effective alternative for managing blood glucose levels.*

The present study focuses on the formulation and evaluation of an antidiabetic tablet derived from custard apple (Annona squamosa) leaves, known for their traditional medicinal use in controlling blood sugar levels. The leaves were collected, dried, powdered, and used as the active pharmaceutical ingredient (API) in a tablet formulation created using the direct compression method. The formulation included excipients like sodium starch glycolate, acacia, starch, and microcrystalline cellulose.

Keywords: Diabetes

DOI: 10.48175/568