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Formulation and Evaluation of NSAIDs Drugs

Munde Gayatri Rukshraj, Momin Siraj Karim, Rathod Shyam Kalu, Kaif Akhlakh Qureshi
Aditya Diploma Institute of Pharmacy, Beed

Abstract: *The present study focuses on the **formulation and evaluation of paracetamol tablets** using the **wet granulation method**. Paracetamol, also known as acetaminophen, is one of the most commonly used over-the-counter drugs for its analgesic and antipyretic properties. Its widespread use necessitates the development of a stable and effective oral dosage form that ensures therapeutic efficacy and patient safety. The formulation process involved the use of excipients such as starch, lactose, polyvinylpyrrolidone (PVP K30), talc, and magnesium stearate. The tablets were prepared using the wet granulation technique, which improves flow properties and compressibility of the powder blend, ultimately leading to better tablet quality. The results demonstrated that all evaluated parameters were within acceptable limits. The disintegration time was within 5 minutes, hardness ranged between 4–6 kg/cm², friability was below 1%, and drug content was within the range of 95–105%. The in-vitro drug release studies showed more than 85% drug release within 30 minutes, indicating effective drug availability.*

Keywords: paracetamol tablets

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