IJARSCT



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 3, Issue 4, May 2023

Formulation Development and Evaluation of Immediate Release Dosage Form

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Abstract: Among all dosage forms, capsule is the most popular dosage form existing today because of its convenience of self administration, compactness and easy manufacturing. Immediate release dosage form are those where greater than or equal to 85% of labelled amount dissolves within 30 min. The basic approach used in development of capsule is the use of different disintegrants like Croscarmellose sodium, Sodium starch glycolate and Plantago Ovata and evaluate impact of different disintegrants on dissolution study. These disintegrants provide rapid disintegration of capsule after administration in stomach.

Keywords: Immediate release, Polymers, Disintegrant, Plantago Ovata

REFERENCES:

- [1]. https://go.drugbank.com/salts/DBSALT001873
- [2]. https://www.drugs.com/
- [3]. http://jums.ac.ir/dorsapax/Data/sub_7/file/Handbook%20of%20pharmaceutical%20excipients.pdf
- [4]. Text book of Pharmacognosy by C.K. Kokate, Purohit, Gokhlae Page No. 8.27 8.28
- [5]. Nyol Sandeep*, Dr. M.M. Gupta, IMMEDIATE DRUG RELEASE DOSAGE FORM: A REVIEW, Journal of Drug Delivery & Therapeutics; 2013, 3(2), 155-161
- [6]. Shiva Shankar K, Development & evaluation of immediate release tablets of Tenofovir disoproxil fumarate.
- [7]. https://www.sciencedirect.com/topics/engineering/ultrasonication#:~:text=Ultrasonication%20is%20commonly%20used%20for,of%20deposition%20by%20loosening%20them
- [8]. https://www.sciencedirect.com/science/article/pii/S2590156721000074#:~:text=The%20USP%20Apparatus %201%20consists,dissolved%20over%20time%20is%20determined
- [9]. https://www.thecarycompany.com/wire-cloth-test-sieve-8-dia-60-mesh-full-ss-ss#:~:text=The%20No.,wire%20diameter%20of%200.16mm
- [10]. https://www.scienceequip.com.au/blogs/news/what-is-electronic-balance-what-are-the-steps-to-use-it#:~:text=what%20is%20an%20electronic%20balance,%2C%20bakeries%2C%20and%20chemical%20laboratories
- [11]. https://www.denovix.com/blog/what-is-a-uv-vis spectrophotometer/#:~:text=Ultraviolet-visible%20(UV Vis,absorbed%2C%20reflected%2C%20or%20transmitted
- [12]. https://inos.in/importance-of-capsule-filling-machine-in-pharma-industries/#:~:text=A%20capsule%20filler%20machine%20is,and%20locked%20in%20the%20machines.&t ext=Automatic%20Capsule%20filling%20machine%20automatically,the%20dry%20forms%20of%20powde rs
- [13]. https://electronicsindia.co.in/product/tap-density-tester-1951/
- [14]. https://www.laboratorydeal.com/products/bulk-density-apparatus-densitometer.
- [15]. https://www.sciencedirect.com/science/article/pii/S2590156721000074
- [16]. Md Mehdi Hasan, Md Mizanur Rahman, Md Rakibul Islam, Hasanuzzaman Hasan, Md Mehedi Hasan and Harun Ar Rashid, A key approach on dissolution of pharmaceutical dosage forms, The Pharma Innovation Journal 2017; 6(9): 168-180.

DOI: 10.48175/IJARSCT-9887

