

Formulation and Evaluation of Sustained Release Preparation of an Immunosuppressant Drug

Mullaicharam Bhupathyraaj

National University of Science and Technology, Oman



Abstract

Oral drug delivery is the simplest and easiest way of administering drugs. The present work investigated the preparation of biodegradable beads with alginate polymer by inotropic gelation method to improve the sustained release properties of the Immunosuppressant Drug. In this present research influence of method on rate of drug release and concentration of polymer coat on rate of drug release from the micro beads were studied. Prepared beads were evaluated for particle size, swelling ratio, drying rate, micrometric studies drug entrapment, percent yield. Particle size distribution of both placebo and drug loaded formulations were measured by an optical microscope and particle size of optimized beads were determined by SEM and Particle Size Analyzer. Result of invitro release, release kinetic and stability study is under process. After the satisfied result micro beads will be filled in the capsule which will be equivalent to marketed Tacrolimus formulation. The filled capsules will be then assessed for content uniformity and drug release characteristics.

Speaker Publications:

- 1."Intellectual Property Rights in Indian Pharmaceutical SectorsA Review"; Mullaicharam et al. Ijppr.Human, 2018; Vol. 14 (1): 30-38.
2. "Challenges in Neonatal Screening in Health Care System", IJCPP, an open access journal/ Volume 3. 2018. 139
3. "Food/Herbs/Dietary requirements for Parkinson's Disease" ; Asian Journal of Pharmaceutical Technology & Innovation, 05 (23); 2017;21-31.
4. "A Retrospective Study - Prevalence and Management of Pediatric Asthma in Muscat region"; International Journal of Pharmaceutical Sciences Letters 2016 Vol. 6 (3)| 055-060.
5. "A review on evaluation, management and pathophysiology of dysmenorrheal", World Journal of Pharmaceutical Research, Volume 5, Issue 5, 241-259.

[23rd Asia Pacific Pharma Congress](#) ; July 22-23, 2020, Melbourne, Australia

Abstract Citation:

Mullaicharam Bhupathyraaj , Formulation and Evaluation of Sustained Release Preparation of an Immunosuppressant Drug, 23rd Asia Pacific Pharma Congress, July 22-23, 2020, Melbourne, Australia.



Biography:

Mullaicharam Bhupathyraaj has completed her PhD from M.S University. She is working as the Professor of Pharmaceutics, College of Pharmacy, National University of Science and Technology, College of Pharmacy, Muscat, Oman. She was a Principal and Professor of Pharmaceutics in Pharmacy College, India. She has 23 years of teaching and research experience in Pharmaceutics and received many research grants and has nearly 70 publications and authored book chapters and has been serving as an editorial board member of reputed journals..