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Factorial Design: A Comparative Study With And Without Use of Software

By Palekar - Shanbhag, Pradnya / Parikh, Priyank

Book Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | A Comparative Factorial Design Approach In Pharmaceutical Formulations | Factorial design as optimization technique was applied in formulation development and processing conditions of Diclofenac sodium granules. The present study involves design and evaluation of non-effervescent granules of Diclofenac sodium with excellent flow properties. In the formulation of non-effervescent granules of Diclofenac sodium, angle of repose was the dependent variable (with excellent flow) and the concentrations of binder (Povidone K-30) and lubricant (Magnesium stearate) were the two independent variables chosen at two different levels. With the help of factorial approach, a polynomial equation $Y = B_0 + B_1X_1 + B_2X_2 + B_{12}X_1X_2$ was formed. Using the polynomial equation three new formulations were selected and performed to evaluate the correlation between experimental and predicted responses. A good correlation was obtained between the experimental and the predicted values. Also the work was oriented to have a comparative study of application of factorial design with and without use of software and come up with any pros and cons of these respective ways. | Format: Paperback | Language/Sprache: english | 76 pp.



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