

## **FORMULATION DEVELOPMENT AND *IN-VITRO* EVALUATION OF MODIFIED FILM COATED DICLOFENAC POTASSIUM TABLETS**

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### **ABSTRACT**

Tablets is the most common drug delivery system used for oral route of administration and can be manufactured by various methods like wet granulation, dry granulation and direct compression. Direct compression is highly efficient, less laborious and increasingly becoming more popular than both dry granulation and wet granulation methods. Diclofenac potassium has excellent antipyretic, analgesic and anti-inflammatory properties. Diclofenac potassium is claimed to dissolve faster and hence absorbed faster than sodium salt. It is also indicated for the treatment of primary dysmenorrhea and mild to moderate pain. Diclofenac Potassium tablet had shown the problem of having D.T. on higher side with wet granulation method and also time and energy consuming along with this sugar coated tablets did not give the dissolution results upto the standards. To resolve these issues convert the wet granulation to direct compression method that will reduce the D.T. and sugar coating will be replaced with aqueous film coating that will give improved dissolution profile.