



## MCC SANAQ® burst: A unique carrier for formulation of sublingual tablets

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**Abstract:** The major impediment that affects formulation of rapidly disintegrating sublingual tablet (RDSTs) is the compromise between instantaneous disintegration and sufficient physico-mechanical properties of active pharmaceutical ingredient and excipients. The present study deciphers about evaluation of the influence of selected diluents on the characteristics of RDSTs manufactured using novel ready-to-use excipient MCC SANAQ® burst by direct compression. The rapidly disintegrating characteristics of three different grades of Avicel and new MCC SANAQ® burst were investigated. All the prepared formulations (F1-F14), using various grades of MCC were examined for their bulk density, tapped density and porosity. The formulations were further tested for weight variation, content uniformity, friability, wetting time, disintegration and dissolution. Studies revealed that Formulation F1, containing MCC SANAQ® burst as a diluent was found to provide quick disintegration in  $0.25 \pm 0.14$  sec and had short wetting time of  $0.45 \pm 1.16$  sec, as compared to formulations that were prepared by using other grades of Avicel. The results revealed that MCC SANAQ® burst is a promising excipient to prepare RDSTs.

**Key words:** MCC SANAQ® burst, sublingual tablet, Avicel grades, direct compression, Duloxetine HCl.

Sachin Kumar Singh *et al* /Int.J. PharmTech Res. 2016,9(1),pp 15-22.

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