

ABSTRACT

**EFFECT OF POLYPLASDONE XL-10 CONCENTRATION IN
COPROCESSED EXCIPIENTS MANNITOL – POLYPLASDONE
XL-10 – GELATIN ON THE PHYSICAL QUALITY AND
DISSOLUTION OF PARACETAMOL ORALLY
DISINTEGRATING TABLET**
(Prepared Using Direct Compression Method)

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The aim of this study was to determine the effect of Polyplasdone XL 10 5% and 10% as a superdisintegrant in coprocessed excipients mannitol – Polyplasdone XL-10 – gelatin 2% on the physical quality (thickness, hardness, friability, disintegration time, wetting time) and dissolution of paracetamol ODT made by direct compression. Tablets were made to contain 120 mg paracetamol/tablet and pressed by hydraulic press for 1 ton. Tablets were evaluated for thickness, hardness, friability, disintegration time, wetting time and dissolution. The results showed that mechanical strength of the tablet containing Polyplasdone XL 10 10% in coprocessed excipients was better than the tablet containing Polyplasdone XL 10 5% in coprocessed excipients, but there was no difference in thickness. The friability of both formula were less than 1%, disintegration time were less than 60 seconds, and percent dissolved within 30 minutes were more than 80%.

Keywords : Orally Disintegrating Tablet, Paracetamol, Coprocessed excipients, Direct compression, Polyplasdone XL-10