ABSTRACT

EFFECT OF KOLLIDON CL CONCENTRATION IN CO-PROCESSED EXCIPIENTS MANNITOL – KOLLIDON CL – GELATIN ON TABLET PROPERTIES AND DISSOLUTION OF PARACETAMOL ORALLY DISINTEGRATING TABLET
(Prepared by Direct Compression)

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There has been an innovation in pharmaceutical dosage form called ODT, an oral dosage form that can disintegrate rapidly in oral cavity less then 60 seconds. The purpose of this study was to determined the effect of Kollidon CL as superdisintegrant (5% and 10%) in co-processed excipients mannitol – Kollidon CL – gelatin 2% on tablet properties such as thickness, hardness, friability, disintegration time, and wetting time, and dissolution of paracetamol orally disintegrating tablet.

In this study, tablets containing 120 mg paracetamol was prepared by direct compression method with the total weight of 400 mg with a compression pressure of one ton for two seconds. The result showed that increasing concentration of Kollidon CL from 5% to 10% accelerated the disintegration time and wetting time of the tablet. Statistical analysis with independent sample t – test showed that ED$_{30}$ from both formulas was not significantly different.

Keyword : orally disintegrating tablet, paracetamol, Kollidon CL, co-processed excipient, direct compression