



## Compatibility Studies of Olanzapine Pre-Formulated with Excipients by Thermal Analysis: Preliminary Study

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**SUMMARY.** Thermogravimetric analysis (TGA) and differential scanning calorimetry (DSC) were used to investigate drug-excipient interactions and, in consequence, their compatibility. For this purpose, binary mixtures of olanzapine drug substance and the excipients croscarmellose sodium, magnesium stearate and microcrystalline cellulose, were prepared and analysed. By the analysis of the binary mixtures DSC and TG curves it were observed changes on the temperature and enthalpy values of the drug melting and decomposition peak, with the likely formation of intermediate substances.

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**KEY WORDS:** Compatibility, DSC, Excipient, Olanzapine, TGA, Thermal analysis.

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