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Solubility and Dissolution Properties of  
Generic Rifampicin Raw Materials

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## Abstract

Rifampicin shows polymorphism; therefore, it is necessary to select a suitable crystal form at an early stage of development to ensure optimum solubility and dissolution rates. This study was an investigation into the crystal properties of several rifampicin raw materials currently being used by manufacturers of generic rifampicin raw materials in South Africa. Powders were characterized by X-ray diffraction (XRD), infrared (IR) spectroscopy, and differential scanning calorimetry (DSC). The solubility in water and dissolution rates were also measured. The results of the XRD, IR, and DSC analysis showed that the polymorphic forms of rifampicin varied not only among manufacturers, but also among batches from the same manufacturer.

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