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Qualitative Analysis of Atorvastatin Raw Material and Atorvastatin Finished Tablet

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Abstract: *Atorvastatin calcium is a widely prescribed lipid-lowering agent belonging to the statin class of drugs. The present study focuses on the qualitative and quantitative evaluation of atorvastatin calcium raw material and finished tablet dosage form according to Indian Pharmacopoeia (IP) specifications. Various analytical techniques including IR spectroscopy, UV-Visible spectroscopy, Thin Layer Chromatography (TLC), High Performance Liquid Chromatography (HPLC), dissolution testing, disintegration, friability, hardness, assay, and impurity profiling were performed. The results confirmed that both the raw material and tablet formulation complied with IP standards. The study establishes the identity, purity, strength, and performance characteristics of atorvastatin calcium.*

Keywords: Atorvastatin calcium, HPLC, Dissolution test, Assay, IP standards, Pharmaceutical analysis

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