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Development, Validation and Stability Study of UV Spectrophotometric Method for Determination of Carvedilol Phosphate in Bulk and Pharmaceutical Dosage Forms

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Abstract: A simple, specific and economic UV spectrophotometric method has been developed using as a solvent methanol:0.1N HCL (95:5) to determine the carvedilol phosphate content in bulk and pharmaceutical dosage formulations. The quantitative determination of the drug has been carried out at a predetermined λ_{\max} of 242nm, it was proved linear in the range 2-12 $\mu\text{g/mL}$ and exhibited good correlation coefficient ($R^2=0.999$) and excellent mean recovery (98-100.09%). The method was validated statically and by recovery studies for linearity, precision, repeatability and reproducibility as per ICH guideline. The obtained results proved that the method can be employed for the routine analysis of carvedilol phosphate in bulk as well as in the commercial formulations.

Key Words: Carvedilol Phosphate, UV Spectroscopy, Validation.

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