

Isobestic Method for Simultaneous Estimation of Resveratrol and Quercetin

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Abstract: Resveratrol and quercetin are well-known polyphenolic compounds found in everyday foods that have shown tremendous promise in the treatment of a wide range of disorders. For simultaneous estimation of resveratrol and quercetin in their binary combination and marketed formulation, a simple isobestic point method was developed. At 267.6 nm, both drugs were found to have the same absorbance (isobestic point). Resveratrol and quercetin showed linearity ranges of 2-20 mL and 2-25 mL, respectively. For resveratrol, the correlation coefficient was 0.999, while for quercetin, it was 0.998. The resveratrol and quercetin recovery ranges were found to be 98.25 % - 100.85 % and 99.25 % - 100.72 %, respectively, showing method accuracy. The precision and % RSD values were both within accepted limits, indicating method selectivity and repeatability.

Keywords: Resveratrol, Quercetin, Isobestic Point method, Simultaneous, Estimation, etc.

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