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Spectrophotometric methods for the determination of L-tyrosine in pharmaceutical formulation

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New simple and sensitive spectrophotometric method has been developed and validated for the determination of L-tyrosine in pharmaceutical formulations. The spectrophotometric method was based on the reaction of L-tyrosine with 4-chloro-7-nitrobenzo-2-oxa-1,3-diazole (NBD-Cl) in an alkaline medium (pH 10.0) to form an orange product absorbers at 388 nm. The variables affecting the reaction of L-tyrosine with NBD-Cl were carefully studied and optimized. Under the optimum reaction conditions, good linear relationships were found between the readings and the concentrations of L-tyrosine in the ranges 10-50 µg/mL. The Limit of Detection (LOD) and Limit of Quantification (LOQ) were found to be 2.85 µg/mL and 8.6 µg/mL, respectively. The method was successfully applied to the determination of L-tyrosine in its pharmaceutical formulations.

Biography

Banan Elshiekh Alsied Basheir has completed her Bachelors in Chemistry from Khartoum University and Masters from Khartoum University in Analytical Chemistry. She is currently working as an Analyst for the Sudanese Standards and Metrology Organization. She has published more than 4 papers in reputed journals.

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