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Thin Layer Chromatographic Separation and Quantitation of L-Dopa and L-Tyrosine in Mixtures

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Abstract: A new TLC separation and quantitation method for L-tyrosine and L-Dopa mixtures was developed. The minimum tyrosine and Dopa quantities which can be measured by this technique are 0.7 and 1.5 μ g respectively. The method may be used to measure the kinetic parameters of polyphenoloxidase as well as to trace the enzyme catalyzed conversion of L-tyrosine into L-Dopa. For a set of 20 measurements the maximum difference between any two measurements of spot areas was found to be 3 mm^2 (4.5%) for L-Dopa (4 μ g) and 2mm^2 (5.6%) for L-tyrosine (1μ g).

Key Words: TLC Separation, L-Dopa-L-Tyrosine mixtures.

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