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On dissociation of weak dibasic and tribasic organic acids participating in Krebs cycle

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Abstract

The method suggested earlier by the authors was used to analyze the regularities of electrolytic dissociation processes for weak dibasic and tribasic organic acids participating in the tricarboxylic acid cycle (Krebs cycle), most important biochemical process that completes the oxidation of main intermediates of degradation of hydrocarbons, fats, and proteins in a living body. The dissociation degrees, concentrations of ionized and nonionized forms in dilute (0.1–10 mM) solutions of oxaloacetic, citric, isocitric, α-keto-glutaric, succinic, L-malic, and fumaric acids were calculated.

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