

Abstract

In this thesis, the voltammetric behavior of 4-aminopyridine was investigated using carbon paste electrode. Differential pulse voltammetry was used for the study. Measurements were carried out in Britton-Robinson buffer medium with different pH values. Optimal pH value found was 9. The electrode passivation during consecutive measurements of 4-aminopyridine without the surface renewal was confirmed, while the accumulation time had no influence on peak heights of 4-aminopyridine.

Limit of detection was $8,76 \times 10^{-6} \text{ mol dm}^{-3}$ and limit of quantification was $1,85 \times 10^{-5} \text{ mol dm}^{-3}$ of 4-aminopyridine under optimal conditions. The linearity of the calibration curve was evaluated using the correlation coefficient.