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Polarographic Determination and Electrochemical Properties of Nozepam

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Abstract

A new rapid polarographic technique has been developed for determining the psychotropic preparation nozepam (oxazepam). Polarograms measured in 0.1 M aqueous tetrabutylammonium iodide solutions exhibit two picks at the potentials $E' = -2.25$ V and $E'' = -2.46$ V. The calibration curve was constructed using the results of the statistical processing of data on the limiting current — concentration relationship. The results of measurements of the differential capacitance of the double electric layer show that nozepam has high ability to adsorption on a mercury electrode.

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REFERENCES

1. M. D. Mashkovskii, *Drugs* [in Russian], Torsing, Kharkov (1998), Vol. 1, pp. 331–334.

2. W. He, N. Parissis, and T. Kiratzidis, *J. Forensic Sci.*, **43**(5), 1061–1067 (1998).

3. United States Pharmacopeial Convention., USP 23, p. 1123.

4. J. M. Clifford and W. F. Smyth, *Rev. Analyst.*, **99**(1178), 241–272 (1974).

5. J. A. Goldsmith, H. A. Jenkins, J. Grant, et al., *Anal. Chim. Acta*, **66**(3), 427–434 (1973).

6. E. Jacobsen and T. Jacobsen, *Anal. Chim. Acta*, **60**(2), 472–474 (1972).

7. E. Jacobsen, T. V. Jacobsen, and T. Rojahan, *Anal. Chim. Acta*, **64**(3), 473–476 (1973).

8. S. G. Mairanovskii, *Catalytical and Kinetical Waves in Polarography* [in Russian], Nauka, Moscow (1966).

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Additional information

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