

FEATURES OF LONG TERM SUPRAMOLECULAR ORDER
IN NEAR-INFRARED ABSORPTION SPECTRA OF
ELECTRONIC HOMEOPATHIC PREPARATIONS BASED ON SALINE SOLUTION

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Background: An ability of water to respond on external influences during long period or so named “water memory” phenomenon has been discussed widely. So named electronic homeopathic copying based on this phenomenon is empirically used in complimentary medicine.

The objective is double blind estimation and analysis of differences between saline-based electronic homeopathic copies and blank saline carrier in near-infrared absorption spectra.

Materials and method: Seven parent substances were used to produce electronic homeopathic copies on saline solution (5-ml factory-sealed ampoules) by means of «Simulator» (Metabolics Ltd, UK) apparatus. It was prepared by 19 ampoules of electronic homeopathic copies of each parent substance and 57 ampoules of hidden control (blank saline carrier). Near-infrared spectra (3000 nm – 600 nm) were measured by Varian Cary 5000i (Agilent Technologies, USA) double-beam spectrophotometer in limits of 10 days after production of preparations. Spectral readings of electronic homeopathic copies of each parent substance were compared with 3 groups of blank saline carrier by means of Mann-Whitney non-parametric U-test. Significant distinctions were fixed if statistically sufficient ($p < 0.05$) differences were observed *re* all 3 groups of blank saline carrier and had identical direction.

Results: Statistically significant distinctions in some wavelengths (from 7 to 17 wavelengths) lying between 3000 nm and 1400 nm were revealed in spectra of electronic homeopathic copies of all parent substances. A part of revealed wavelengths having statistically significant distinctions *re* blank saline carrier demonstrated an order in their position, and Planck’s energy increments between adjacent wavelengths had periodicity with a step of approximately $4.2E-21$ Joules.

Conclusion: Both statistically significant distinctions and a sign of an order in the wavelengths position may be treated in favor of reality of electronic homeopathic copying phenomenon.