

Disinfection of water with reactive oxygen forms

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Keywords: water, Swimming pools, reagents for water disinfection, oxidant activity, coulometry method, electrogenerated chlorine and bromine.

Abstract

A new method for express analysis of the oxidant properties of the reagents for water disinfection by the reactive oxygen coulometric method using a serial device and certified methods. The analysis has been carried out on the active oxygen preparation "Bayroklar Duo Tab" of the company Bayrol (Germany). Component 2 of the preparation "Bayroklar Duo Tab" consisting of the concentrate of algacide with ammonium cationic polymer "BAYROL-patent" does not affect the oxydant activity of component 1, which includes potassium monopersulfate. When stored the original artesian water and water from swimming pools treated with the preparation "Bayroklar Duo Tab" increase their total antioxidant activity.

Introduction of hydrogen peroxide into water taken from a swimming pool, treated with the preparation "Bayroklar Duo Tub", leads to the reduction of its total antioxidant activity, with the occurrence of synergy effect - non-additive combined effect of antioxidants, water and hydrogen peroxide, which manifests mainly oxidative properties under the influence of the activating component "Bayroplus Tab".