

Mutagenic activity and chlorinated by-products in disinfected waters

Abo Academy Press - Chlorinated water health effects: Effects of chlorine treatment of drinking water

Description: -

Nature / Field Guide Books

Nature

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Water -- Purification -- Chlorination.

Chlorine -- Physiological effect.

Chemical mutagenesis. Mutagenic activity and chlorinated by-products in disinfected waters

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vol. 51, nr. 2.

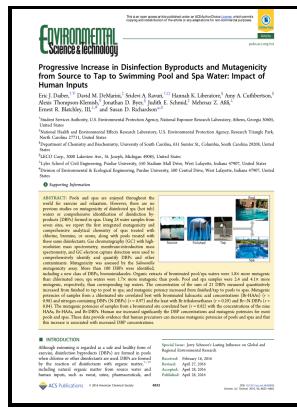
Acta Academiae Aboensis.

vol. 51, nr 2

Acta Academiae Aboensis. Ser. B, Mathematica et physica, Mutagenic activity and chlorinated by-products in disinfected waters

Notes: Includes bibliographical references (p. 45-58).

This edition was published in 1991



Tags: #Genotoxic #potential #of #by

CiteSeerX — Contribution of Chlorination to the Mutagenic Activity

of Drinking Water Extracts in Salmonella and Chinese Hamster Ovary Cells

The dramatic reduction in halogenated DBPs occurred for all tested source waters and all disinfection conditions. A pilot-plant study with alternative disinfectants was carried out with stored water of the Rivers Rhine and Meuse. Thus, the use of monochloramine as a secondary disinfectant associated with chlorine dioxide as the primary disinfectant was evaluated in four drinking water treatment plants supplied by artificial basins located in the central-northern part of Sardinia.

Disinfection By

Relatively few toxicological and epidemiological studies have been carried out examining the effects of DBPs on reproductive health outcomes. Typically, DBP concentrations, with the exception of cyanogen chloride, were lowest in chloraminated waters. High levels of chlorine, such as from an improperly adjusted or malfunctioning chlorinator would be a problem for the occupants who would not want to be drinking such water, and might be a problem for the septic system too.

Mutagenic Activity Associated with By

Compounds which might be responsible for the increased mutagenicity after chlorination are two brominated acetonitriles and tri 2-chlorethyl phosphate. Ozonation was found capable of reducing mutagenic matter in the groundwater by 54. Drinking concentrated hypochlorite solution can produce severe damage to the upper digestive tract and even death.

Mutagenic Activity Associated with By

MX accounts for approximately 30% and E-MX for a few percent of the overall mutagenicity.



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