

CHARLES UNIVERSITY IN PRAGUE
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DEPARTMENT OF BIOPHYSICS AND PHYSICAL CHEMISTRY

BACHELOR THESIS

THE IMPACT OF DEIONIZED WATER DRINKING ON HUMAN HEALTH

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Abstrakt EN

This bachelor thesis deals with suitability of drinking of deionized water, water deprived of minerals. The first part describes what basically water is and how it is important for each cell. Water helps transport oxygen to cells, transports waste matter and protects joints and organs. Afterwards the division of water into several groups is discussed. Drinking water is indispensable for human body. For that reason this issue is elaborated in the second part. The third part deals with distilled water, its composition and production. The fourth and the fifth parts, are dedicated to the possibilities of elemental analysis in water samples. The impact of deionized water on human health is fleshed out in the sixth part. The reasons why people drink deionized water as a part of their water intake are mentioned in this part, together with description of several studies performed on laboratory animals and volunteers. The seventh part is devoted to essential mineral substances and their crucial role for human body. The consequences of essential minerals deficiency are mentioned as well.

Keywords: drinking water, distilled water, deionized water, demineralized water, minerals