**DETERMINATION OF IRON AND COCONUT LEVEL IN WATER FROM DRINKING WATER FROM ORDER AND REVERSE OSMOSIS (RO)**

**WATER IN MEDAN CITY USING SPECTROPHOTOMETRY**

**METHODATOM APPLICATIONS**

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**ABSTRACT**

Mineral water, is water wherein it still contains minerals such as Magnesium, Potassium, Iron, and Zinc. The purpose of this study was to determine the levels of iron and zinc in ordinary water and reverse osmosis water (RO) obtained from several drinking water depots in the city of Medan.

The samples used were 2 samples of ordinary mineral water obtained from drinking water depots on Bahagia By Pass and Garu 3 roads, and 2 RO water obtained from Air Bersih road and M. Nawi Harahap. The method used is atomic absorption spectrophotometry because this method is sensitive, selective and simple. Iron is measured at wavelengths λ 248.3 nm and zinc λ 213 nm.

The results of the study obtained iron and zinc minerals from ordinary mineral water samples obtained from drinking water depots on the Happy By Pass path of 0.375 mg / liter, 0.051396 mg / liter and respectively for water samples from Garu 3 road. , 58271 mg / liter, 0.058205 mg / liter. Whereas the RO drinking water samples obtained from the Clean Water road were 0.365555 mg / liter, 0.051690 mg / liter, and for samples from M. Nawi Harahap road 2,419332 mg / liter, 0, respectively. 097575 mg / liter.

Keywords: Levels, RO Water, Mineral Water, Iron, Zinc, Atomic Absorption Spectrophotometry