

Evaluation of the presence of Li, Na, K, Ca, Ba in drinking waters.

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- **Abstract:** The quality of water for human consumption requires increasing investment in new technologies for its purification and distribution. This is due to the high levels of contamination of primary sources such as rivers and lagoons, due to the dumping of domestic and industrial waste that generates the proliferation of diseases and damage to the ecosystem. In view of this situation, the consumer is looking for new options in the market for the consumption of the liquid element, such as table water, energizing water, mineral water, etc. The research results indicate the concentration of electrolytes present in eleven samples of table water offered in two large supermarkets in the city of Trujillo. In addition, pH, electrical conductivity and hardness were determined. The inferential validation of two hypotheses, the first one concluding that the table water analysis data for both supermarkets are similar and the second one that the data obtained are below the Maximum Permissible Limits issued by the Ministry of Environment, obtaining as a final conclusion that the consumption of these table waters does not generate damage to the health of the population.
- **Keywords:** generate damage, health, Evaluation