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Paper information

Title	ANTIBACTERIAL, IN VITRO CYTOTOXIC, AND ANTIOXIDANT ACTIVITIES OF ELECTROLYZED OXIDIZING/REDUCING WATER

Abstract Objective: Electrolyzed oxidizing/reducing water is popular as a health beneficial water in Indonesia. In this study, we examined the level of antibacterial, anticancer, and antioxidant activity of the electrolyzed water. Methods: The efficacy of electrolyzed water produced by Enagic® at six level pH (2.5, 6.0, 7.0, 8.5, 9.0, and 9.5) was investigated. Antibacterial activity was evaluated by using a macro dilution method. The anticancer activity was performed against human breast cancer (T47D) cell lines by using MTT assay. Moreover, the antioxidant activity was determined by using antioxidant model, 1,1-diphenyl-2picryl hidrazyl (DPPH) radical scavenging activity. Results: The results show that electrolyzed water exhibited antibacterial activity against Propionibacterium acnes and Staphylococcus epidermidis. Among six level pH, electrolyzed water at pH 2.5 showed the highest antibacterial activity. The in vitro cytotoxic activity of electrolyzed water showed a potential moderate cytotoxicity. The activity tends to be higher in alkaline electrolyzed water. However, the electrolyzed water showed free radical scavenging activity. Conclusion: Electrolyzed water that marked in Indonesia has some potential health benefits. The activity dependent on pH.

Keywords Antibacterial activity, antioxidant, anticancer, electrolyzed water, a healthy water

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