

UJI CEMARAN BAKTERI COLIFORM PADA MINUMAN JAJANAN DI SEKITAR TAMAN DI KOTA TERNATE

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ABSTRAK

Latar belakang: Bakteri coliform dapat mencemari makanan dan minuman melalui berbagai cara, salah satunya kontaminasi tinja, yang berdampak buruk bagi kesehatan. Air minum yang terkontaminasi bakteri coliform >50/100 mL telah diteliti dapat menyebabkan diare. Kandungan bakteri coliform di dalam minuman es serbuk instan telah ditetapkan tidak boleh melebihi >3/mL. Belum pernah ada penelitian mengenai hal ini di kota Ternate.

Tujuan: Mengetahui kandungan cemaran bakteri coliform di dalam minuman jajanan di sekitar taman di Kota Ternate.

Metode: Penelitian prospektif deskriptif ini dilaksanakan melalui uji laboratorium terhadap minuman jajanan di sekitar taman di Kota Ternate. Uji *Most Probable Number* bakteri coliform, dilakukan di Unit Pelaksana Teknis, Laboratorium Dasar dan Terpadu, Provinsi Maluku Utara pada bulan Desember 2021-Januari 2022. Dilakukan dua pengujian yaitu uji pendugaan dan uji penegasan.

Hasil: Dari 22 sampel minuman jajanan es serbuk instan yang diperoleh dari berbagai taman di sekitar Kota Ternate yaitu Toboko, taman Falajawa satu, taman Nukila, taman Landmark, dan taman Film Benteng, sebesar 90,9% positif mengandung bakteri coliform di atas ambang batas.

Simpulan: Cemaran bakteri coliform di taman Kota Ternate telah melampaui ambang batas baku mutu berdasarkan standar Nasional Indonesia 7388 tahun 2009. Diperlukan penelitian lebih lanjut untuk memastikan temuan ini.

Kata kunci: Bakteri coliform, minuman jajanan, Ternate.

COLIFORM BACTERIA CONTAMINATION WITHIN STREET BEVERAGES SOLD IN TERNATE CITY PARKS

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ABSTRACT

Background: Coliform bacteria contamination of food and beverages may result from various causes, one of which is faecal contamination, leading to serious health issues. Drinking water contamination of coliform bacteria >50/100 mL has been found to be responsible for diarrhea episode. Local regulation has determined the cut-off point of its contamination within commercial beverages not to exceed 3/mL. No such study has ever been conducted in Ternate.

Objective: To determine the exact value of coliform bacteria within street beverages sold in various city parks in Ternate.

Methods: This descriptive prospective was carried out through laboratory testing of street beverages obtained from various city parks in Ternate. The *most probable number* test for coliform bacteria was carried out at the Technical Implementation Unit, Basic and Integrated Laboratory, North Maluku from December 2021-January 2022. The presumption test and the affirmation test were conducted accordingly.

Results: From 22 instant powdered ice drinks samples obtained from Toboko, Falajawa 1, Nukila, Landmark, and Film Benteng parks, 90,9% contained coliform bacteria exceeding the cut-off value.

Conclusion: Coliform bacteria contamination in the city parks within Ternate has exceeded the quality standard threshold based on Indonesian National Standard 7388 of 2009. Further research is needed to confirm this finding.

Keywords: Coliform bacteria, street beverages, Ternate.