

ABSTRAK

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Program Studi : Farmasi
Judul : Uji Cemaran Bakteri *Escherichia coli* dan *Salmonella* spp. pada Produk Fermentasi Kimchi Rumahan di Wilayah DKI Jakarta

Kimchi adalah makanan sayuran fermentasi tradisional Korea yang dapat dibuat sendiri (*homemade*) dan dijual melalui layanan pesan-antar di Kota Jakarta. Produk kimchi rumahan diduga dapat memiliki cemaran bakteri patogen, seperti *Escherichia coli* dan *Salmonella* spp. yang dapat menyebabkan penyakit diare, tifus dan paratifus pada manusia. Penelitian ini bertujuan untuk mengetahui cemaran bakteri *Escherichia coli* dengan metode *Most Probable Number* (MPN) atau Angka Paling Mungkin (APM) dan cemaran bakteri *Salmonella* spp. secara kualitatif. Jumlah bakteri *Escherichia coli* pada sampel A sebesar 46 APM/g, sampel B sebesar 24 APM/g, sampel C sebesar 110 APM/g, sampel D sebesar 46 APM/g dan sampel E sebesar 46 APM/g. Cemaran bakteri *Salmonella* spp. pada sampel A, B, C, D dan E menunjukkan hasil negatif/25 g sampel. Berdasarkan Peraturan Badan Pengawas Obat dan Makanan (BPOM) Nomor 13 Tahun 2019, jumlah bakteri *Escherichia coli* pada sampel melebihi batas maksimal persyaratan yaitu 3 APM/g, sedangkan keberadaan bakteri *Salmonella* spp. sesuai dengan persyaratan, yaitu negatif/25g sampel.

Kata Kunci:

Escherichia coli, DKI Jakarta, Kimchi, *Salmonella* spp.

ABSTRACT

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Title : Contamination Detection of *Escherichia coli* and *Salmonella* spp.
on Fermentation Products Homemade Kimchi in Special Capital
Region of Jakarta

Kimchi is a traditional Korean fermented vegetable food that can be made at home (homemade) and sold through delivery services in the City of Jakarta. Homemade kimchi products are suspected to be contaminated with pathogenic bacteria, such as *Escherichia coli* and *Salmonella* spp. which can cause diarrhea, typhoid and paratyphoid in humans. This study aims to determine the contamination of *Escherichia coli* bacteria using the Most Probable Number (MPN) method and the contamination of *Salmonella* spp. were analysed qualitatively. The number of *Escherichia coli* bacteria in sample A was 46 MPN/g, sample B was 24 APM/g, sample C was 110 MPN/g, sample D was 46 MPN/g and sample E was 46 MPN/g. *Salmonella* spp. contamination. on samples A, B, C, D and E showed negative/ 25 g sample. Based on the regulation of the Indonesian Food and Drug Authority (BPOM) Number 13 of 2019, the number of *Escherichia coli* bacteria in the sample exceeded the maximum limit of 3 MPN/g, while the presence of *Salmonella* spp. is in accordance with the requirements, which is negative/25g sample.

Keywords:

Escherichia coli, Kimchi, *Salmonella* spp., Special Capital Region of Jakarta