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## Microbiological quality assessment of handmade juice in street of the Dhaka city, Bangladesh

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The present study was conducted for bacteriological study of handmade juice on the street of Dhaka city. For this, total viable bacterial count (TVBC) isolation, purification, Gram staining, selective isolation, result interpretation were determined in mango juice (*Mangifera indica*), apple juice (*Malus domestica*), orange juice (*Citrus sinensis*), malta juice (*Helichrysum melitense*) and lacchi. In such investigation highest TVBC ( $1.4 \times 10^6$ ) and ( $1.2 \times 10^6$ ) was observed in mango juice and Alo vera juice which is from Khilkhet (street) and and Sadarghat (street) and the lowest TVBC ( $9.0 \times 10^5$ ) was observed in malta juice which is collected from banana ( $1.2 \times 10^6$ ) and TVBC ( $9.0 \times 10^5$ ) was observed in Papaya from Banani. In conclusion, 10 types of selected isolate were selected depending on their growth, colony color and morphology for final study. *Enterobacter aerogenes* was present in mango juice sample, *Pseudomonas aeruginosa* was present in apple juice sample, *Salmonella Typhimurium* was present in malta juice sample, *Bacillus cereus* was present in orange juice sample and *Klebsiella pneumoniae* was present in lacchi sample. While preparing these juices of different street areas of Dhaka city it was not properly stored and not in properly handling condition. As a result we can say that these street juice product can cause serious health effect even death of human being due to presence of harmful pathogen.

### Biography

Kaniz Fatema has completed her MS in Microbiology from Primeasia University, Dhaka, Bangladesh.

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