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RESEARCH ARTICLE:

Microbial and physico-chemical characteristics of street vended fruit juices

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SUMMARY: Street vended fruit juices are on high demand because of their nutritive value and mineral and vitamin content but the concern on food safety is very high. This study is aimed to detect different food borne micro-organisms along with Physico-chemical characteristics of freshly prepared street vended fruit juices (sapota, pineapple, grape, mixed fruit juices). A total of 12 juice samples from three different stalls of pulivendula were collected and examined for their physico-chemical properties and for their microbiological quality. Physico-chemical properties of fruit juices include pH, Titrable acidity and TSS. The pH of sapota juice (7.26) is high when compared to other fruit juices. The titrable acidity was high for grape juice (0.556) and the TSS of sapota juice (20.3) is high. Microbiological analysis includes the isolation and identification of bacteria. The total colony forming units was found high in mixed fruit juices on an average of 8.5×10^6 cfu/ml whereas *E.coli* count was found high in grape with 1.5×10^4 cfu/ml and pineapple juices with 1.0×10^6 cfu/ml and *Staphylococcus* was found high in sapota juice with 1.9×10^4 cfu/ml. Isolated bacteria were identified by using biochemical tests and gram straining.

KEY WORDS:

Fruit juices, pH, Titrable acidity, TSS, Colony forming units How to cite this article: Jayamma, P., Reddy, R. Raveendra, Aruna, R. and Srineetha, U. (2017). Microbial and physico-chemical characteristics of street vended fruit juices. *Agric. Update*, **12**(TECHSEAR-3): 629-634; **DOI: 10.15740/HAS/AU/12.TECHSEAR(3)2017/629-634.**

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