

## Formulation of therapeutic drink to boon human health (guava-lime-ginger RTS beverage)

J. SELVI, P. BANUMATHI, S. KANCHANA AND M. ILAMARAN

The study was conducted to evaluate the formulation of therapeutic drink guava-lime-ginger RTS beverage (GLG RTS) to boon health. The fixed ratio of fruit juices in guava-lime-ginger RTS beverage was 10:3:2. The prepared RTS was bottled in glass bottles and stored at room ( $R_1$ ) and refrigerated ( $R_2$ ) temperature. An increasing trend in the acid content of the GLG RTS was observed. The acid content of RTS beverage increased from 0.252 to 0.305 and 0.252 to 0.298 per cent in  $R_1$  and  $R_2$  samples, respectively. The freshly prepared guava-lime-ginger RTS beverages had TSS of 15° brix and slight reduction was noticed during storage. A gradual increase in reducing sugar content of the RTS was observed. The final reducing sugar content of GLG RTS was increased from 5.98 to 8.28 and 5.98-7.98 g per 100 ml in  $R_1$  and  $R_2$ , respectively. The final total sugar content of the RTS beverage decreased from 12.24 to 10.95 in  $R_1$  and 12.24-11.24 g per 100 ml in  $R_2$  samples. A gradual reduction in the ascorbic acid content was observed in all the samples during storage. The initial and final ascorbic acid content was 8.82 to 7.85 and 8.82-7.98 mg per 100 ml ( $R_1$  and  $R_2$ , respectively) in GLG RTS beverage. A slight increase in the microbial load was noted in the formulated value added fruit products during storage. Initially the bacteria, fungal and yeast count was below detectable level (BDL) and at the end of storage period microbial load slightly increased. The formulated value added fruit product secured highly acceptable to acceptable score value during storage. The mean overall acceptability score values noted in storage ranged from 8.55 to 8.30 in  $R_1$  and 8.75 to 8.50 in  $R_2$  samples at the end of 180 days. Comparative economic analysis of value added production showed that the cost of production of RTS per litre was Rs. 29.74. It was found that maximum profit could be obtained per litre of RTS production Rs. 6.26 per kg.

**Key Words :** Therapeutic drink, RTS beverage

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