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Studies on textural and sensory quality attributes of biscuits using wheat, sorghum and groundnut blend flour

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Experiments were conducted to evaluate quality attributes of biscuits using wheat, sorghum and groundnut blend flour. Study was also conducted to see the effect of blend flours treatments on textural characteristic and sensory evaluation. Flours blend were prepared with various combination of wheat, sorghum and groundnut as W_{80} : S_{15} : $G_{05}(T_1)$, W_{70} : S_{20} : $G_{10}(T_2)$ and W_{60} : S_{25} : $G_{15}(T_3)$. Textural characteristics *viz.*, fracturability, hardness, cohesiveness, adhesiveness through texture analyzer. The sensory characteristics *viz.*, colour, odor, flavour, taste, texture and overall acceptability were evaluated for fresh, 30, 60 and 90 days of storage period. The maximum hardness was found in sample prepared for treatment T_2 (2752.70 g), whereas higher cohesiveness value was obtained in sample of treatment T_1 (1.67). The adhesiveness and springiness were obtained maximum in sample of treatment T_3 (8.47 g.s) and treatment T_2 (2.09 mm), respectively. The gumminess and chewiness value were found highest in sample of treatment T_2 (4349.26 g) and treatment T_2 (9056.48 g.mm), respectively. Sensory characteristics as colour, odor, flavour, taste and overall acceptability were scored highest rating in T_2 treatment as compared to T_1 and T_3 treatments. Sensory score was decreased with increase of storage period in all treatments. Fresh biscuit samples prepared with wheat 70% + sorghum 20% + groundnut 10% rated highest score (7.8) than other treatments. The treatment (T_2) gave better product in view of colour, odor, flavour, taste and overall acceptability as well as textural quality attributes.

Key Words: Biscuit, Blend flour, Textural, Sensory

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