Abstract
Starch was isolated from dehydrated Horse Chestnut slices dried at temperature of 50, 60, 70, 80 and 90°C and rehydrated chips (dried at 50 and 60°C) at rehydration temperature of 25 and 40°C. Optimization was done on the basis of starch yield. The highest yield was found in the sample dried at 50°C. Physicochemical properties of optimized starch were determined. Color values indicate that the starch was light in color with L value of 96.2. The starch was having a neutral pH with zero carboxyl content. The bulk density value was 0.85g/ml and sediment value was 36ml. Light transmittance showed a decreased trend with increased storage period of 120hrs. Syneresis and freeze thaw values were increased from 0 to 3.24% and 0 to 20.21% with storage period.

References

functional properties of flours from Indian kidney bean (Phaseolus vulgaris L.) cultivars. Food Science and Technology 53, 278-284.

Extraction of Starch from Differently Treated Horse Chestnut Slices

cereal carbohydrates (pp. 109-115). Amsterdam: Elsevier.


Index Terms

Computer Science Applied Science

Keywords

Horse Chestnut Starch Bulk Density Sediment Value Paste Clarity Color Syneresis