ABSTRACT

Quality control in production is an essential aspect to ensure consistent and high-quality products. One commonly used method is control charts, which can statistically identify variations in the production process. This study develops the application of the u control chart and the Poisson Double Progressive Mean control chart in the production process of brownies. The u control chart is used to measure the number of defects per unit, while the Poisson Double Progressive Mean control chart is applied to measure the defect distribution within data groups using the progressive mean method. The purpose of this study is to compare of both control charts in detecting variations in the number of defects that occur during the brownies production process. The results indicate that the Poisson Double Progressive Mean control chart is more sensitive in detecting small changes in defect levels compared to the u control chart.

Keywords: u control chart, Poisson Double Progressive Mean control chart, quality control, brownies, defect count