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Spectrophotometric Analysis of different flowers of *Tagetus erecta*Colourant at different pH Values

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ABSTRACT

Spectrophotometric analysis of the natural colourant from different flowers of Tagetus erecta were carried out at different pH levels. The result shows that Tagetus erecta extract (colourant) was stable at the experimental pH range of 2.6 – 9.4(light yellow colored flowers) and 2.5-8.4 (orange colored flowers). This was indicated by the similar peaks of absorption maxima at the different pH values. Beer's law is valid over the concentration range 50 - 400 ppm. The complex has absorption maximum at 470 and 480 nm respectively. Tagetus erecta extract, with further studies could be used as a colourant in pharmaceutical formulations.

Keywords: Spectrophotometric analysis, *Tagetus erecta*, colourant, pH effect, Colourant.