Dyah Iswantini 17 July 2024

Department of Chemistry, Faculty of Mathematics and Natural Sciences

IPB University, Indonesia

JI Tanjung Kampus IPB Dramaga

Telp/Fax: +622518624567

e-mail address: dyahis@apps.ipb.ac.id

Dear Editor of Jurnal Kimia Valensi

I would like to submit an original research article entitled "Development and Application of a Low Cost Reflectance Visible Spectrophotometer with Chemometric Methods for *Curcuma xanthorrhiza* Quality Control" written by Rudi Heryanto, Dyah Iswantini, Eti Rohaeti, Mohamad Rafi, Novia Rahma, Nurul Hafshah and Eni Mardiana for possible publication in Jurnal Kimia Valensi.

This manuscript reports the construction and analytical performance test of Low-Cost Reflectance Visible Spectrophotometer built by using consumer electronic components. We found that it has successfully been made by using a LED as the light source and a webcam as the detector. And also its analytical performance parameters has been examined. The regression model on its reflectance spectrum data gave results that were comparable to those obtained using a commercial spectrophotometer and its classification model exhibited perfect sensitivity and specificity values and detection capabilities within acceptable limits. This reflectance spectrophotometer has the potential to be used as an alternative instrument for quality control of raw materials and herbal products

I would like to undertake that manuscript has not been published elsewhere, accepted for publication elsewhere or under editorial review for publication elsewhere. We have no conflicts of interest to disclose. All the authors approve the contents and the submission of this manuscript to Jurnal Kimia Valensi.

I do hope the manuscript could be considered for publication in Jurnal Kimia Valensi.

Thank you for your kind attention.

Sincerely yours,

Dyah Iswantini