

# Current Pharmaceutical Analysis

## Manuscript Evaluation Form

Editor-in-Chief: Anastasios Economou, Department of Chemistry, Laboratory of Analytical Chemistry, University of Athens, Athens, Greece

<b>PAPER TITLE</b>	Comparative Study of Different Derivative Spectrophotometric Techniques for Analysis and Separation of Metformin, Empagliflozin, and Glimepiride
<b>AUTHOR(S) NAME</b>	Khanda F.M. Amin, Nabil A. Fakhre, Ahmed M. Abdullah

### Sec. A: REFEREE'S ASSESSMENT

*(cross as appropriate)*

Criterion	Excellent	Good	Fair	Poor
Originality of the topic	x			
Technical Quality		x		
Importance in its Field	x			
Style & Overall Representation		x		
Readily Understandable	x			
Suitability for the Journal	x			
Adequate Illustrations or Drawings	x			
English language		x		
Description	Yes	No	Comments/ Suggestions	
Does the title represent manuscript's contents?	x			
Is the Abstract accurate and concise?	x			
Are the approach/ methods properly described?	x			
Are the conclusions and interpretations sound?	x			
Are the references properly cited?	x			
Is this a new/ original/ contribution?	x			
Is it within the scope of the journal?	x			
<b>Overall the Paper is Rated:</b>	<b>(Excellent ----- Poor)</b> 10   9 <b>8</b> 7   6   5   4   3   2   1			

### Sec. B: REFEREE'S RECOMMENDATIONS

### OTHER SPECIFIC CRITICISMS

Accept with minor changes

x

Imperfect style

x

Accept with major changes

Too long

Reject in current form, but may be resubmitted

References incorrectly presented

Reject, with no resubmission

Typographical and Grammatical errors

x

**PAPER TYPE:** Research article

Review article

Letter article

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**Confidential Comments to the Editor (not for Transmission to Authors):**

This article is within the scope of the journal and suitable for publication, after some revision.

**Comments for the Authors (continue on another sheet, if necessary):**

Review of the article entitled

Comparative Study of Different Derivative Spectrophotometric Techniques for Analysis and Separation of Metformin, Empagliflozin, and Glimepiride, by Khanda F.M. Amin, Nabil A. Fakhre, Ahmed M. Abdullah

In the present study four different, accurate, precise and selective derivative spectroscopic techniques were applied MCRS, DDRS, RDZC, and SDRS for determination of metformin, empagliflozin, and glimepiride in the synthetic ternary mixtures and the pharmaceutical tablets. The methods were able to resolve the overlapped spectra without prior separation of these components in the mixtures. Based on the obtained results and statistical analysis, it is concluded that these methods are suitable for the estimation of the mentioned drugs in the market tablet formulation, without any interference of the excipients present in formulation.

This article is within the scope of the journal and suitable for publication, after some revision.

The English language has to be improved.

For example, in the abstract state: The methods were studied, instead of studies

Use one space between the numbers and units of measure, as well as the same abbreviation for the same term, and the same term for the given abbreviation in the entire manuscript.

State the complete term and the abbreviation at the first place where it appears in the manuscript, in the rest of the text use either the abbreviation or full term.

Use spaces at the adequate places in the manuscripts between some words or numbers.

On page 8, replace certified to be of 99.05 % purity or 99.05 % pure, instead of 99.05

On page 9, it should be stated: The overlapped spectra are shown in Fig. 2 in the range of 200-300 nm.

In certain subheadings, such as for example 2.3.3, 2.3.4, 2.3.5, 3.1.1 and 3.1.2 check that the correct and entire name of the method or spectra is stated, use the term spectra, spectrophotometric method, or spectrophotometry, instead of spectrophotometric

On page 10, the regression equations were calculated, instead of was

Mention the unit of measure  $\Delta\lambda = 20$  nm, instead of  $\Delta\lambda = 20$ , in the entire manuscript

On page 11, the zero order spectra of these mixtures were recorded in the range of 200-400 nm, as mentioned in 2.3.2.

Some other sentences should also be corrected, for example in Results and discussion,

The overlapped absorption spectra of MTF, EMG, and GLM in their ternary mixture, in the spectral range of 210-300 nm are shown in Fig 2.

Put the point at the end of the second sentence in the paragraph 3.1.2., as well as at the end of sentence in paragraph 3.3.

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On page 12, as well as page 15, use the term were found to be, instead of were founded  
 For example, the optimum concentrations of MTF and GLM were found to be  $3.0 \mu\text{gmL}^{-1}$   
 Replace an optimum concentration, instead of concentrations  
 On pages 13 and 14, as shown in Fig. 4c, without brackets for (Fig 4c), and similarly, as shown in Fig. 5a, Fig. 5b, Fig. 6, Fig. 8  
 On page 15, were obtained, as shown in Table 4.  
 Table 6 shows the results obtained, instead of the resulted  
 In conclusion, replace also the results instead of resulted  
 For example, state: The results obtained by the four proposed methods show good agreement with the reported method, when statistically compared.  
 The results obtained by the four proposed methods show satisfactory results when compared with the reported methods.  
 Replace these drugs, instead of these drug  
 Place in the same row the numbers and units of measure, on page 9,  $3.0 \mu\text{gmL}^{-1}$ , on page 10,  $3.0 \mu\text{gmL}^{-1}$  and  $2.0 \mu\text{gmL}^{-1}$ , page 11,  $3.0 \mu\text{gmL}^{-1}$ , page 15,  $6.0 \mu\text{gmL}^{-1}$ , page 16,  $30 \mu\text{gmL}^{-1}$   
 Spaces between certain categories of headings and subheadings should be the same, format the entire manuscript uniformly.  
 On page 14, move subheading 3.3.3. to the next page  
 Place all the Figures with their legends and all the Tables with their captions and numbers at the adequate places within the manuscript, in the order in which they are mentioned in the text.  
 Delete the points after captions of Tables 1, 4 and 5, and coma after caption of Table 6.  
 Place the adequate caption above Table 7.  
 The quality of some figures can be improved, resolution or font of letters and numbers increased.  
 Use the labeling Absorbance or A, instead of Parameter, beside the axes y, preferably.  
 Indicate which color of the spectrum line corresponds to which compound.

**FIELD OF EXPERTISE OF REFEREE:** Materials and chemical technologies, nanotechnologies, biomedical engineering, chemistry, medicinal and pharmaceutical chemistry

**Name & Affiliation of referee:** Tamara Jovanovic, Department of Biomedical Engineering, Faculty of Mechanical Engineering, University of Belgrade, Kraljice Marije 16, 11120 Belgrade, Serbia

Dr Tamara Jovanovic / February 15, 2019  
**SIGNATURE OF REFEREE / DATE**