

Current Pharmaceutical Analysis

Manuscript Evaluation Form

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

PAPER TITLE	A Sensitive HPLC-MS/MS Method for the Quantification of Selegiline in Beagle Dog Plasma: Application to the Pharmacokinetic and Bioavailability Study
AUTHOR(S) NAME	Hongrui Liu, Fang Chen, Bing Wang, Hao Wang, Shasha Jin, Zhou Yang, Yusheng Chen, Yingjun Quan, Xiaoqiang Xiang

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			
Overall the Paper is Rated:	(Excellent ----- Poor) 10 9 8 7 6 5 4 3 2 1			

Sec. B: REFEREE'S RECOMMENDATIONS

OTHER SPECIFIC CRITICISMS

Accept with minor changes

x

Imperfect style

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 generally well written, 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

A Sensitive HPLC-MS/MS Method for the Quantification of Selegiline in Beagle Dog Plasma: Application to the Pharmacokinetic and Bioavailability Study, by Hongrui Liu, Fang Chen, Bing Wang, Hao Wang, Shasha Jin, Zhou Yang, Yusheng Chen, Yingjun Quan, Xiaoqiang Xiang

In this study a reliable and sensitive high-performance liquid chromatography - tandem mass spectrometry (HPLC-MS/MS) method for the quantification of selegiline in Beagle dog plasma was developed, validated and applied to study the pharmacokinetic and bioavailability of selegiline oral lyophilisate in Beagle dogs. The obtained pharmacokinetic results were also compared with that following intragastric (i.g) administration. It was found that buccal delivery of selegiline could significantly increase its bioavailability.

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

The English language has to be improved at some places

For example, in the abstract, Mass spectrometry was performed

In the Introduction, page 3, use two words for *n*-butyl chloride

The correct spelling is transdermal, Merck

Move to the next page and place in the same row 10 μ L

On page 4, the correct spelling is triple quadruple mass spectrometer, quantitation

Place in the same row (20 ng/mL)

Delete one space and replace (1:9, v/v), instead of (1: 9, v/v)

On page 5, the correct spelling is investigate

Use one space between the numbers and units of measure in the entire manuscript.

Replace 12 h, instead of 12h

Move to the next page and place in the same row 3000 rpm

On page 6, the correct spelling is labeled

In Table 1, column 3, Mean \pm SD should be placed in the same line, like in column 6

In Table 2, replace 0.0002, instead of 0.02%, in the last row

On page 10, It should be corrected in the text: The precision for intra-day ranged from 1.40 to 6.86 % (n=3), instead of (n=5)

In the caption of Table 3, Precision and accuracy for the determination of selegiline in plasma of Beagle dogs (n=3 for intra-day and n=3 for inter-day).

In Table 3, QC samples should be placed in the same line, as well as Recovery \pm SD

The determined values should be placed in a single line, the first letter should be capital (their abbreviations

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can also be used), and the units of measure should be placed in another line, in all the Tables, preferably. The last sentence on page 10 should be: There was no significant degradation of selegiline plasma samples after storing at ambient temperature for 4 h, post-treatment at 4 °C for 24 h, freeze-thawing for three cycles and storing at -20 °C for 20 days.

Add the points after the legends of Figures 1 and 2, delete the points after the captions of Tables 1, 3, 4, 5 and 6 and format the entire manuscript according to the style of the journal.

The quality or resolution of Figures 2, 3 and 4 can be improved.

In Figure 4, one space should be added between Time and (h), for Time (h), as well as for Concentration (ng/mL)

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

Add the numbers of Issues to references 1 and 18, if available.

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 / May 28, 2019

SIGNATURE OF REFEREE / DATE

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