Reviewer’s report

**Title:** THE FALLACY OF ENZYMATIC HYDROLYSIS FOR THE DETERMINATION OF BIOACTIVE CURCUMIN IN PLASMA SAMPLES AS AN INDICATION OF BIOAVAILABILITY: A COMPARATIVE STUDY

**Version:** 0  **Date:** 24 Jun 2019

**Reviewer:** Marcela Segundo

**Reviewer's report:**

The present manuscript reports the effect of enzymatic hydrolysis during sample treatment for evaluation of bioactive curcumin in plasma samples. This version contains information different from the previous submission, including experimental data from a study with human subjects. In this revised manuscript, experimental evidence about the increase on values of bioavailable curcumin following enzymatic hydrolysis of plasma sample is given. In the "Methods" section, "The samples were analysed for free curcumin, curcumin sulfate, curcumin glucuronide, tetrahydrocurcumin, demethoxycurcumin and bis-demethoxycurcumin" is written. However, no results were presented for curcumin sulfate, demethoxycurcumin and bis-demethoxycurcumin. If these analytes were not found (as they may exist below of the detection limit of the analytical method), please include some comment in the revised manuscript. Otherwise, please include the values obtained.

Finally, in the section "Ethics approval and consent to participate", a declaration should be included as this research involved human subjects.

**Are the methods appropriate and well described?**

If not, please specify what is required in your comments to the authors.

Yes

**Does the work include the necessary controls?**

If not, please specify which controls are required in your comments to the authors.

Yes
Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics

Quality of written English
Please indicate the quality of language in the manuscript:

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