Reviewer’s report

Title: Thai plants with high antioxidant levels, free radical scavenging activity, anti-tyrosinase and anti-collagenase activity

Version: 0 Date: 11 Jul 2017

Reviewer: Xingjun Fan

Reviewer's report:

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BCAM-D-17-00645, Chatatikun M et al, Thai plants with high antioxidant levels, free radical scavenging activity, anti-tyrosinase and anti-collagenase activity.

Summary: This is a thorough, well-conducted study that provides convincing evidence regarding some antioxidants, anti-tyrosinase and anti-collagenase plant extract. Specific comments are below.

1. The major concern is regarding to the antioxidants properties from DMSO itself. DMSO has been documented able to reduce lipid peroxidation, protein carbonyl formation, hydroxyl radical production. Authors used DMSO as solvent in this study to determine the antioxidative function and therefore need to clarify the potential contribution by DMSO itself.
2. The extracts from plant by either ethanol or other solvent will produce just a raw mixture of various compounds. The inhibitory effect of either tyrosinase or collagenase might be due to combination of various compounds, so does antioxidants properties. In addition, the toxicity of the extract might over balance the antioxidants properties in these extracts. Authors need to clarify the limitation of their study.
3. In phenolic, flavonoid content test, a DMSO blank data is needed.
4. In line 186, don't understand the sentence "This is double your results which is more than the content in a twig extract"
5. English proofreading is needed in entire text.
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.

Not relevant to this manuscript

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Please indicate the quality of language in the manuscript:

Needs some language corrections before being published

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