Reviewer's report

Title: Assessment of phytochemical content, polyphenolic composition, antioxidant and antibacterial activities of Leguminosae medicinal plants in Peninsular Malaysia

Version: 1 Date: 21 October 2010

Reviewer: Victor Kuete

Reviewer's report:

The work reported Yik-Ling Chew et al. provide a baseline information for future pharmacological work on nine Malaysian medicinal plants. The methods are well described. However, minor revision is required to have a final acceptable form of the manuscript. below are the point to check.

1. Go through the manuscript to correct careless mistakes (Grammar, microbial strains names, e.g. pneumoniae not pneumonia.....etc.).
2. Check the IC50 value of ascorbic acid. Is it 0.00382 or 0.0382 mg/mL (The known values are closer to this one).
3. Give IC50 values in µg/ml and refer to cutoff point for significance in discussion section (see Omisore et al. 2005; Kuete and Efferth, 2010). Omisore et al. (2005) considered the cut-off point for antioxidant activity as 50 µg/ml. Samples with IC50 > 50 µg/ml were classified as being moderately active, while samples with IC50 < 50 µg/ml were judged as having high antioxidant capacity. According to Kuete and Efferth (2010), plant extracts are considered to have high or significant antioxidant capacity when IC50 < 50 µg/ml, moderate antioxidant capacity with 50 < IC50 < 100 µg/ml (extract) or low antioxidant capacity with IC50 > 100 µg/ml.


Level of interest: An article of importance in its field

Quality of written English: Needs some language corrections before being published

Statistical review: Yes, but I do not feel adequately qualified to assess the statistics.
Declaration of competing interests:

I declare that I have no competing interests