Reviewer’s report

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

Version: 1 Date: 9 October 2010

Reviewer: Ilhami Gülçin

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In the present study the authors evaluated the phytochemical content, polyphenolic composition, antioxidant and antibacterial activities of Leguminosae medicinal plants such as Acacia auriculiformis, Bauhinia kockiana, Bauhinia purpurea, Caesalpinia pulcherrima, Calliandra tergemina, Cassia surattensis, Leucaena leucocephala, Peltophorum pterocarpum, and Samanea saman in Peninsular Malaysia. The manuscript was well-organized and clear and concise. After some corrections, it can be accepted as regular manuscript. These corrections are listed below:

Page 2/In Results: Some results related to antioxidant activity should be given in related section of abstract.

Page 4: After the paragraph ‘One of the major groups of phytochemicals, phenolic compounds, … bilayers against peroxidation induced by reactive oxygen species (ROS) [6].’ The both following related reference should be given: ‘Polyphenol contents and antioxidant activity of lyophilized aqueous extract of propolis from Erzurum, Turkey. Food and Chemical Toxicology, 48, 2227–2238’ and ‘Antioxidant properties of resveratrol: A structure-activity insight. Innovative Food Science and Emerging Technologies 11, 210-218’.

Page 34: The authors should be deleted unnecessary Table 4 from the text.

Level of interest: An article of outstanding merit and interest in its field

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.