Reviewer's report

Title: Findings on antioxidant activity and total phenolic and flavonoid contents of Torilis leptophylla L.

Version: 1 Date: 2 July 2012

Reviewer: Ilhami Gulcin

Reviewer's report:

In the present study, the authors evaluated effect of solvent extracts of whole plant of Torilis leptophylla with respect to its antioxidant activity and total phenolic and flavonoid content in order to find new potential source of natural antioxidant. The manuscript was well documented. It can be accepted after some corrections. These corrections were listed below:

1. After the sentence of “Antioxidant activity is an important and fundamental function in life systems. Many of the biological functions such as the anti-mutagenic, anti-carcinogenic, and anti-aging responses originate from this property” the following references should be given: “Antioxidant activity of food constituents-An overview. Archives of Toxicology, (2012). 86(3), 345-396” and “Caffeic acid phenethyl ester (CAPE): Correlation of structure and antioxidant properties. International Journal of Food Sciences and Nutrition, (2011). 62(8): 821–825”.

2. After the section of “DPPH radical scavenging activity assay” the following actual reference should be given: “Polyphenol contents and in vitro antioxidant activities of lyophilized aqueous extract of kiwifruit (Actinidia deliciosa). Food Research International, (2011), 44 (5), 1482-1489”.

3. At the same manner, after the information of “The antioxidant capacity of test samples was expressed as EC50, the concentration necessary for 50% reduction of ABTS.” the following actual reference should be given: “(2011). Pomological features, nutritional quality, polyphenol content analysis and antioxidant properties of domesticated and three wild ecotype forms of raspberries (Rubus idaeus L.). Journal of Food Science, 76(4), C585–C593”.

4. The reference of “Park et al (2008) [27]” should be corrected as “Park et al. [27]”.

5. After the sentence of “Hydrogen peroxide occurs naturally at low concentration levels in the air, water, human body, plants, microorganisms and food” the following reference should be given: “(2005). Antiradical and antioxidant activity of total anthocyanins from Perilla pankinensis decne. Journal of Ethnopharmacology, 101, 287-293”

Level of interest: An article of importance in its field

Quality of written English: Acceptable
Statistical review: No, the manuscript does not need to be seen by a statistician.