

P-195**Assay Guided Isolation of Glycosides from *Micromilum Minutum* (Rutaceae) with Antioxidant Activities**

Nur Kartinee Kassim^{1,*}, Mawardi Rahmani¹, Amin Ismail², Mohd Aspollah Sukari¹ and Aminah Abdullah

¹Chemistry Department, Faculty of Science, Universiti Putra Malaysia, 43400 UPM Serdang, Selangor, Malaysia;

²Department of Nutrition and Dietetics, Faculty of Medicine and Health Sciences, Universiti Putra Malaysia, 43400 UPM Serdang, Selangor, Malaysia; ³School of Chemical Sciences and Food Technology, Faculty of Science and Technology, Universiti Kebangsaan Malaysia; E-mail: kartinee@putra.upm.edu.my

Genus *Micromelum* of the family Rutaceae consists of about 11 species found mostly in tropical and subtropical regions. The plant of this genus have significant medicinal values and traditionally used to treat infected wounds, oedema, rheumatism, cough and fevers (Luo *et al.*, 2012). In Malaysia, *Micromelum minutum* (synonymous with *M. Puhescens Blume*) is known as "Chemama", "Cherek-cherek" or "Secherek" amongst the local people. Assay guided isolation by using 1,1-diphenyl-2-dipicrylhydrazyl (DPPH) radical on methanol extract of *Micromilum minutum* has led to the isolation and identification of three glycosides (disaccharides (1), alkaloid glycosides (2) and furocoumarin glycosides (3)) which exhibited good antioxidant activities against DPPH, β -carotene and linoleic acid oxidation and oxygen radical antioxidant capacity (ORAC). In this presentation we wish to highlight the structural elucidation of the compounds by spectroscopic method and their potential as antioxidant agents against the three different assays.

Keywords: Rutaceae, *Micromelum minutum*, DPPH, β -carotene linoleic acid oxidation, oxygen radical antioxidant capacity (ORAC), glycosides.
