

# Non-Phenolic Antioxidant Compounds from *Buddleja asiatica*

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The methanol extract of the leaves of *Buddleja asiatica* Lour. (Loganiaceae) showed antioxidant activity toward the well known *in vitro* antioxidant tests such as total antioxidant capacity by the phosphomolybdenum method, free radical scavenging activity by the 1,1-diphenyl-2-picrylhydrazyl scavenging assay (DPPH assay) and hydrogen peroxide scavenging methods. Due to the high scavenging activity of the *n*-butanol successive fraction toward DPPH and H<sub>2</sub>O<sub>2</sub> (SC<sub>50</sub> = 11.99 and 18.54 µg/ml, respectively), this extract was subjected to chromatographic separation and isolation. Four non-phenolic compounds were isolated and identified on the basis of spectroscopic and chemical analyses: 1-*O*-β-D-glucopyranosyl-2-methoxy-3-(2-hydroxy-triaconta-3,12-dienoate)-glycerol (**1**), 3-*O*-[α-L-rhamnopyranosyl-(1→4)-β-D-glucopyranosyl-(1→3)]-[β-D-glucopyranosyl-(1→2)]-β-D-fucopyranosyl-olean-11,13(18)-diene-3β,23,28-triol (**2**), 3-*O*-[α-L-rhamnopyranosyl-(1→4)-β-D-glucopyranosyl-(1→4)-β-D-glucopyranosyl-(1→3)]-β-D-fucopyranosyl-olean-11,13(18)-diene-3β,23,28-triol (**3**), and 3-*O*-[α-L-rhamnopyranosyl-(1→4)-β-D-glucopyranosyl-(1→3)]-[β-D-xylopyranosyl-(1→2)]-β-D-glucuronopyranosyl-acid-olean-11,13(18)-diene-3β,23,28-triol (**4**). The four compounds were evaluated as antioxidant agents using the three antioxidant bioassay tests.

*Key words:* *Buddleja asiatica*, Antioxidant, Triterpenoidal Glycosides