

The Antioxidant Activities of Extracts from *Sambucus williamsii* var.

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Total phenolic compounds from *Sambucus williamsii* var. stem extracts were 2.0, 1.9, 14.74 and 13.67 mg/g in the water extracts, 70% ethanol, 70% methanol and 70% acetone extracts and those of leaves extracts were 6.6, 5.2, 15.32, and 14.62 mg/g in the water, 70% ethanol, 70% methanol and 70% acetone, respectively. In various ethanol concentrations, total phenolic compounds of 70% ethanol extracts from *Sambucus williamsii* var. stem and leaves were both the highest each as 2.0 mg/g and 5.2 mg/g, and the optimal extraction time was 18 hours both. The antioxidant activities of *Sambucus williamsii* var. stem extracts were measured as 94.26±0.43% at 200 µg/ml in EDA, 97.20±0.28% inhibition rates on ABTS, 1.04±1.47 PF in antioxidant protection factor and TBARS were 90.64±0.21% and 85.29±0.34 in the control and 70% ethanol extracts. EDA of *Sambucus williamsii* var. leaves extracts was 89.73±1.15% at 200 µg/ml, 99.11±0.91% of inhibition rate on ABTS, 1.11±1.22 PF in antioxidant protection factor and TBARS were 98.13±1.41 and 85.29±0.74% in the control 70% ethanol extracts.

Key words: *Sambucus williamsii* var, extracts, phenolics, antioxidant activities.