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Evaluation of the estrogenic activity in immature female rats and acute oral toxicity of the *Pueraria candollei* var. *mirifica* (Airy Shaw & Suvat.) Niyomdham

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Summary: Pueraria candollei var. Mirifica (P. mirifica) and its extracts are widely used as the ingredients in many rejuvenating products in Thailand. In recent time, P. mirifica has been acclimatized in Vietnam. To find out if P. mirifica acclimatized in Vietnam has estrogenic activity or not, we investigated the estrogenic activity of P. mirifica using uterotropic assay in immature female rats. The study results showed that P. mirifica planted in Bacgiang, Vietnam had increased the relative wet and dry weight of uterus at doses of 100 mg/kg, 200 mg/kg, 500 mg/kg; the relative wet weight of ovary at doses of 100 mg/kg, 500 mg/kg; the relative wet weight of vagina at doses of 50 mg/kg, 100 mg/kg, 200 mg/kg, 500 mg/kg; the relative dry weight of vagina at dose of 500 mg/kg. Especially, we have undefined LD50 in mice fed with P. mirificaat dose up to 55 g/kg BW, is far higher than the effective dose. The results of this study confirmed estrogen activity and the safety of P. mirifica acclimatized in Vietnam