Organoleptic and phytochemical evaluation of different extracts of *Orthosiphon aristatus* (Blume) Miq. whole plant of Cambodia

**Huykhim Ung**, Voleak Nov, Voleak Yin, Sokunvary Oeung, Koemlin Roum, Sin Chea, Samell Keo

Department of Pharmacy, Faculty of Health Sciences, University of Puthisastra, Phnom Penh, Cambodia

*Corresponding author: ksamell@puthisastra.edu.kh; H/P: (855) 12 552 681

**KEYWORDS:**
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**INTRODUCTION**
*Orthosiphon aristatus* (Blume) Miq. (Local name: *Puk Muort Chhmar*) also known as cat’s whiskers or java tea is a branched herbaceous plant that belongs to Lamiaceae family. It possesses an anti-inflammatory, anti-hypertensive, anti-microbial properties and enhances the urine flow.

**OBJECTIVES**
This study was conducted to evaluate the organoleptic features and phytoconstituents of *Orthosiphon aristatus* (Blume) Miq. native to Cambodia.

**MATERIALS AND METHODS**
Dried whole plant of *Orthosiphon aristatus* (Blume) Miq. was collected from the local plant drugstore and authenticated by University of Puthisastra (UP)-Herbarium (UPFPH-050015). The organoleptic feature was evaluated by means of sense organs such as colour, odour, taste and texture parameters. The dried plant was extracted with three solvents including methanol, ethanol and chloroform. Each plant was extracted for 30 minutes at room temperature by Ultrasonication-Asssisted Extraction (UAE) method. The extracting yields were subjected to the analysis of phytochemicals comprised of alkaloids, saponins, flavonoids, terpenoids, tannins, phenolic compounds, resins and essential oils.

**RESULTS**
The organoleptic features of the dried *Orthosiphon aristatus* (Blume) Miq. revealed that the leaves were greenish; the flowers were whitish; the odour was pleasant; and the texture was characteristic. The extracting yields of *Orthosiphon aristatus* (Blume) Miq. whole plant accounted for 4.15% (chloroform extract), 0.71% (ethanol extract) and 9.54% (methanol extract). The phytochemical evaluation of these three solvent extracts gave the positive tests of flavonoids, essential oils, alkaloids, phenolic compounds and tannins.

**CONCLUSION**
This study profiles the scientific information for the proper organoleptic features and phytoconstituents of Cambodian *Orthosiphon aristatus* (Blume) Miq. based on which the plant identity and purity can be authenticated.
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