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Standardization of Simplicia and Ramania Leaf Extract (*Bouea macrophylla* Griffith) from South Kalimantan

Saftia Aryzki *, Setia Budi, Yanti

Program Studi Farmasi, Fakultas Kesehatan, Universitas Sari Mulia, Jalan Pramuka KM.6, 70238 Banjarmasin, Indonesia

*Corresponding author: saftia.aryzki@unism.ac.id

ABSTRACT

Ramania (*Bouea marophylla* Grifth) is a herbal plant that has antioxidants and inhibits free radicals. This research aims to carry out standardization based on specific and nonspecific parameters of simplicia and extracts. Sampling and *Bouea marophylla* Grifth were taken at three growing places, namely Pemuda Village, Banua Botanical Gardens, and Tahura Sultan Adam. The standardization method used refers to the Indonesian Herbal Pharmacopoeia and General Extract Standard Parameters. Organoleptic observations of simplicia are green in color, bland and astringent taste, and characteristic odor. Microscopic observations showed the presence of cell walls, phloem, xylem, stomata, and cell nuclei. Microscopic observation in the presence of ethanol soluble extract content = 15.6%, water-soluble content of 23.7%, and drying shrinkage of 5.5%. The description of the extract is green-black, has a characteristic odor, and tastes bland, and is astringent. The ethanol extract of Ramania leaves contains alkaloids, flavonoids, steroids, tannins, glycosides, saponins, and anthraquinones which are confirmed in the TLC profile showing the similarity of chemical compound content in each growing site. Bouea Marophylla Grifth leaf extract contains alkaloids, salkowaski, tannins, triterpenoids, glycosides, anthraquinones, saponins, phenolics, flavonoids which are confirmed in the TLC profile showing the similarity of chemical compound content in each growing place. Yields The results of specific and non-specific parameter tests of simplicia and *P. pinnata* leaf extract from three growing locations met the requirements set by MMI and BPOM RI.

Keywords: Standardization, Ramania, *Bouea Marophylla*, Simplicia, Ekstact