

Botanical Aspects and Preliminary Phytochemical Constituents of *Allium cepa* L.

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Abstract

Allium cepa L, locally known as Kyethhun-ni was collected from Shan State Panglong Townships at Wan-Mai village and the whole plant was studied in this research. According to the morphological characters present in the vegetative and reproductive parts of the plants, it has been identified by using available literature. *Allium cepa* L. belongs to the family Alliaceae, which was widely cultivated in Myanmar. The microscopical characters of fresh lamina, leaf-sheath, bulbs and roots were examined to ascertain its identification. The epidermal cells are arranged in parallel row. The epiblema are one-layered, rectangular to irregular in shaped, below the epiblema is exodermis. The vascular bundles are radial type, polyarch, compactly arranged. The bulbs of this plant were tested to determine the preliminary phytochemical. Saponins, steroids and starch were found to be absent and carbohydrates, α -amino acids, phenolic compounds, flavonoids, tannins, alkaloids, glycosides, reducing sugar, protein were present.

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