

**TAXONOMIC SIGNIFICANCE ON MORPHOLOGICAL AND ANATOMICAL
CHARACTERS OF *Cardiospermum Halicacabum* L. and *Cardiospermum Corindum*
L. (Sapindaceae)**

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ABSTRACT

The taxonomic significance on morpho/anatomical characters for the selected study species such as *Cardiospermum halicacabum* L. and *Cardiospermum corindum* L. has clearly explained and recorded with additional evidences. This study was mainly focused on their similarities and differences of morphological and anatomical characters observations between the species. The proper descriptions with prominent characters are discussed for the proper identification of closely related misidentified study species. In overall results the study species *Cardiospermum halicacabum* was morphologically distinguished from *C. corindum* by leaf, stem, internode, and fruit features. The anatomical characters of these two species were differentiated with some prominent characters. Especially for *Cardiospermum halicacabum* the presence of anamocytic type of stomata with diffused in number, stem pentagonal, having 5 short blunt ridges and the xylem vessels are diffused and small in size in root. Whereas in *C. corindum* it was observed dense anamocytic type of stomata, hexagonal stem having 6 short ridges and the xylem vessels in root are dense and large in size. These characters could be the additional taxonomic evidence than the available floras descriptions. It may help to proper identification of closely related allied plants and also it is an important tool in studying evolutionary history and ecological relationships between the species.

Keywords: morpho/anatomical, misidentified species, *Cardiospermum* sp., additional taxonomic evidence