

***Sigmatostalix unguiculata* C. Schweinfurth sp.**

nov.

Herba parva, epiphytica, caespitosa. Pseudobulbi approximati, late patentés, ellipsoidei vel ovoidei, valde complanati, monophylli, vaginis foliiferis nonnullis utrinque suffulti. Folia anguste oblonga vel oblongo-elliptica, apice rotundato oblique bilobulata, in sicco nitida et submembranacea. Inflorescentiae axillares, breves, laxissime rariflorae. Flores parvuli. Sepala petalaeque reflexa, membranacea, elliptico-lanceolata vel ovato-lanceolata, acuminata. Labellum perlonge unguiculatum; lamina profunde trilobata cum lobis lateralibus valde arcuato-porrectis, triangulari-linearibus et lobo intermedio pandurato, subacuto. Columna gracillima, arcuata.

Plant small, caespitose, epiphytic. Roots fibrous, flexuous, glabrous. Pseudobulbs ellipsoid or ovoid, apparently strongly complanate, monophyllous, about 1–1.5 cm. long, shining, rugose in the dried specimen, supported on each side by commonly three imbricating leaf-bearing sheaths. Leaves linear-oblong to oblong-elliptic, obliquely bilobulate at the rounded apex, conduplicate at the narrowed base, up to 5.6 cm. long and 8 mm. wide (few perfect blades present), submembranaceous, rather shining above, dull beneath. Inflorescences short, axillary, very remotely few-flowered. Flowers apparently secund, widely spreading. Pedicellate ovary filiform, about 8 mm. long. Flowers small. Sepals and petals reflexed, membranaceous, 3-nerved, with a dorsal keel near the apex. Dorsal sepal elliptic-lanceolate, about 5–5.5 mm. long and 2 mm. wide, acuminate with conduplicate upper margins, concave. Lateral sepals ovate-lanceolate, about 5–5.5 mm. long and 2 mm. wide, slightly oblique, acuminate, apiculate. Petals obliquely ovate-elliptic, about 4.8 mm. long and 2.2 mm. wide, acuminate. Lip long-unguiculate with the lamina abrupt-

ly deflexed; claw elongate, narrowly linear, about 5 mm. long, fleshy, 5-nerved; lamina abruptly 3-lobed, cordate at the base with the lateral lobes abruptly arcuate-spreading then porrectly inflexed, triangular-linear, fleshy-thickened, densely pubescent; the anterior margins of the oblique bases of the lobes pass into a fleshy ovate-triangular bilobed callus which occupies the entire center of the lip; mid-lobe narrowly pandurate, 1-nerved, about 2 mm. long with its dilated base concealed by the central callus, the narrower isthmus dilated into a transversely ovate-rhombic apical portion which is subacute with a dorsal subapical keel. Column slender, arcuate, gradually dilated above, with a prominent stigmatic orifice, about 4.8 mm. long in natural position.

Sigmatostalix unguiculata is apparently unique in the genus by reason of its long, slender claw and its peculiar arcuate-porrect narrow lateral lobes of the lip. In some respects it suggests the Colombian *S. minax* Kränzl.

COSTA RICA: epiphyte on fallen branch, vicinity of El General, Province of San José, at 975 meters altitude, flowers greenish, December 1936, *Alexander F. Skutch 3020* (TYPE in Herb. Ames No. 55414).