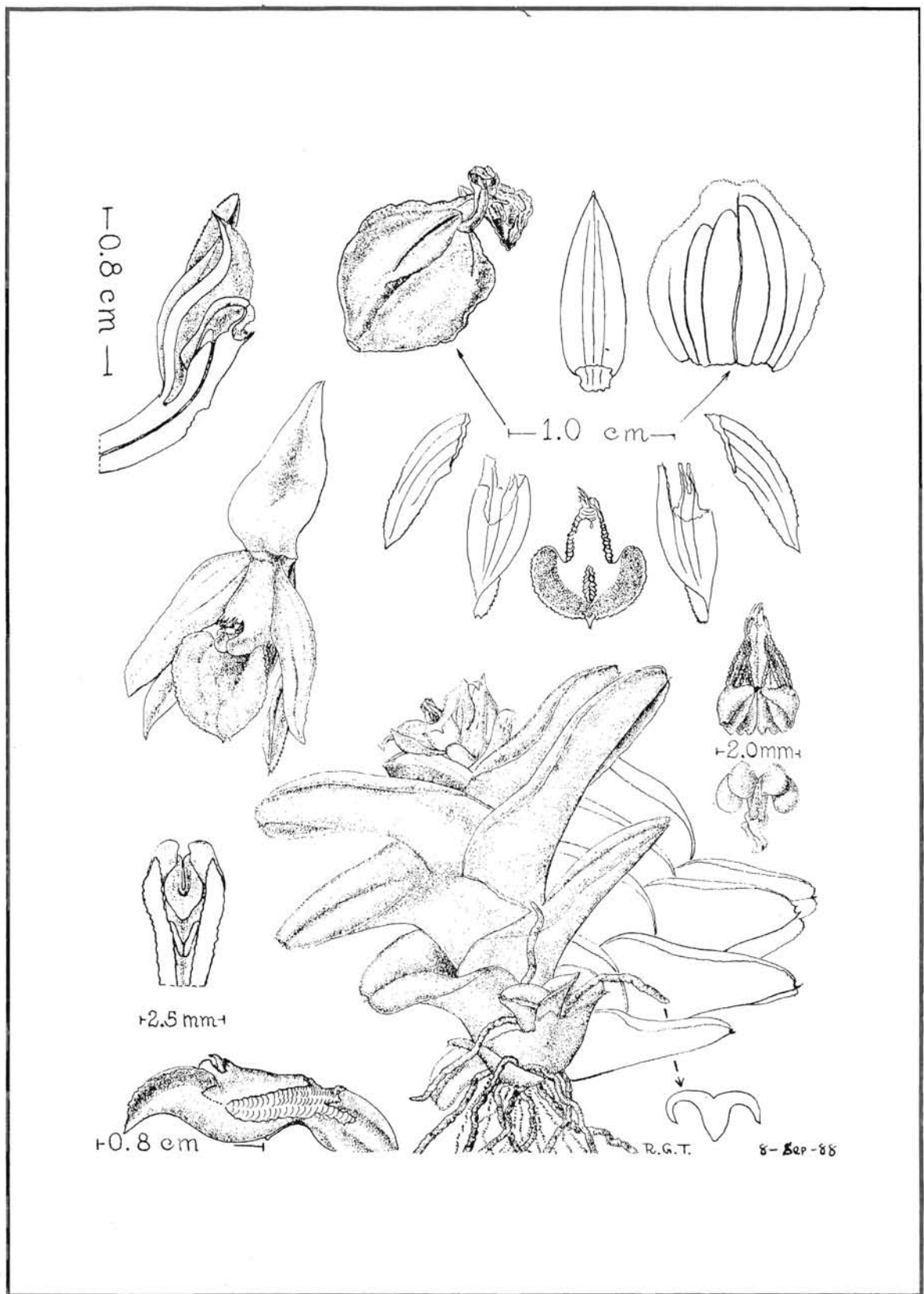




EPIDENDRUM GONZALEZ-TAMAYOI Hágsater

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EPIDENDRUM GONZALEZ-TAMAYOI Hágsater, *sp. nov.*

Holotype: MEXICO: Jalisco: Cuautitlán: km 16 camino Cuautitlán-Ayotitlán, 820 m, prensado en cultivo 3 diciembre 1990, *R. González Tamayo sub E. Hágsater 9951*, AMO!
Clonotype: 12 septiembre 1991, AMES!

Epidendro schlechteriano Ames simile, sed floribus minoribus, ex purpureo viridibus, antherae apice profunde lacerato.

Hierba epífita, cespitosa, compacta, densa, con rizomas cortos de ca. 4 mm de largo. Raíces filiformes, 0.6-1.5 mm de grosor. Tallos erectos, totalmente envueltos y ocultos por las hojas, 2.5-6 cm de largo. Hojas 6-12, imbricadas, succulentas, no articuladas, ovadas, ápice bilobado, aristado, margen apical diminutamente eroso-fimbriado, dorsalmente carinadas, color verde con márgenes amoratados hasta casi totalmente morada cuando expuestas directamente al sol, 1-2 x 0.8-1.3 cm. Inflorescencia terminal, florece una sola vez, sesil. Brácteas florales iguales a las hojas, progresivamente reducidas, la menor conduplicada. Flores casi siempre 2, simultáneas, resupinadas, verdes, los segmentos más o menos teñidos de morado-rojizo, ápice de la columna y antera morados, con fragancia nocturna a hipoclorito de calcio. Ovario trigono, 7-8 mm de largo. Sépalo dorsal reflexo, ovado-lanceolado, agudo, 3-nervado, membranáceo, dorsalmente carinado hacia el ápice y éste finamente denticulado, 10-13 x 3-4.5 mm. Sépalos laterales ovado-lanceolados, agudos, oblicuos, 3-nervados, membranáceos, fuertemente carinados dorsalmente, unidos a la base de la columna, los márgenes y la quilla algo denticulados, 9-12.5 x 2-4 mm. Pétalos angostamente lanceolados, agudos, oblicuos, 3-nervados, márgenes algo erosos, 9-10 x 1.5-3.3 mm. Labelo unido a la columna, entero, profundamente cordiforme, apiculado, succulento, los márgenes erosos, superficie granulosa dándole un aspecto mate, ecaloso y sin carina central, 5-6 x 7-8 mm. Columna recta, deflexa en la base respecto al ovario, terminada en dos lóbulos laterales apicales redondeados, carnosos, 5-6 mm de largo incluidos los lóbulos. Clinandrio irregularmente dentado a lacerado. Antera 4-locular, terminada en una lámina prominente profundamente lacerada. Polinios 4, obovoides, lateralmente comprimidos, subiguales; caudículas granulosas, algo más cortas que los polinios; viscidio semilíquido, transparente. Rostelo subapical, hendido. Lóbulos laterales del estigma prominentes, de la mitad del largo de la cavidad estigmática. Nectario poco profundo, penetrando menos de 1/4 del ovario. Cápsula elipsoide-globosa, trialada, sésil, 10 x 8 mm, el ápice provisto de un pico corto.

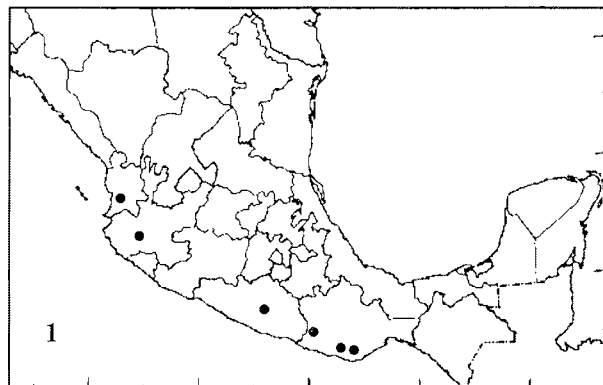
Herb epiphytic, compact, dense. Roots filiform. Stems erect, totally covered by the leaves. Leaves imbricating, succulent, not articulate, ovate, bilobed, aristate, apical margins minutely erose-fimbriate, dorsally carinate, green with purple margins to completely purple when exposed to direct sunlight. Inflorescence terminal, flowers only once, sessile. Floral bracts leaf-like, the smallest conduplicate. Flowers nearly always 2, simultaneous, resupinate, green, the segments more or less reddish-purple, apex of column and anther purple, with nocturnal fragrance of calcium hypochlorite. Ovary trigonous. Sepals ovate-lanceolate, acute, 3-veined, membranaceous, dorsally carinate and finely denticulate; dorsal sepal reflexed; lateral sepals united to the base of the column. Petals narrowly lanceolate, acute, oblique, 3-veined, margins erose. Lip united to the column, entire, deeply cordiform, apiculate, succulent, ecallose, ecarinate, margins erose, surface granulose, dull. Column straight, deflexed at the base with respect to the ovary, ending in two lateral, rounded, fleshy lobes. Clinandrium irregularly dentate to lacerate. Anther 4-celled, ending in a deeply lacerate blade. Pollinia 4, obovoid, laterally compressed, subequal; caudicles granulate; viscidium semiliquid, transparent. Rostellum subapical, slit. Nectary shallow, penetrating less than 1/4 of the ovary. Capsule ellipsoid-globose, 3-winged, with an apical beak.

OTHER SPECIMENS: MEXICO: Guerrero: González sub Östlund 1722, AMES(x2)! US! Nagel & González sub Östlund 3277, AMES! Roetzl s.n., W! Jalisco: Pérez de la Rosa 1033, IBUG! Oaxaca: Nagel & González sub Östlund 6064, AMES(x2)! US!

OTHER RECORDS: MEXICO: Nayarit: Parra-Hake (in Pollard's notes), AMO!

DISTRIBUTION AND ECOLOGY: Endemic to Mexico, on the Pacific slope of the Sierra Madre del Sur, in the states of Nayarit, Jalisco, Guerrero and Oaxaca. On oaks in open, warm oak forest from 700 to 1100 m altitude. Flowering from September to November.

RECOGNITION: This species is closely related to *E. schlechterianum* Ames, which is apparently endemic to Central Panama and has concolorous, purple flowers, with the sepals 18-20 mm long. *Epidendrum congestoides* Ames & C. Schweinf. has glaucous-green leaves on stems up to 7 cm long, 2 flowers per inflorescence, and sepals 9-13 mm long. *Epidendrum congestum* Rolfe has somewhat shorter plants, 3-4 flowered inflorescences and sepals 6-7 mm long. *Epidendrum gonzalez-tamayoi* has short, compact plants, the leaves brilliant green suffused with purple, 2 flowers and sepals 9-12.5 mm long.



CONSERVATION STATUS: Vulnerable. The habitat of this species is endangered throughout its range due to agriculture and charcoal production, though the species is widespread.

ETYMOLOGY: Named in honor of Roberto González Tamayo, who has dedicated a major part of his life to the study of the orchids of Jalisco, collecting, illustrating and describing them. His illustrations highlighted Rogers McVaugh's treatment of the Orchidaceae in *Flora Novo-Galiciana*. Presently with the Instituto de Botánica, Universidad de Guadalajara (IBUG), he has been associated with the AMO Herbarium since its foundation.

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Plate 136

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