

EPIDENDRUM CARDIOBATESII Hágsater & Dodson

THE GENUS EPIDENDRUM PART 4

EPIDENDRUM CARDIOBATESII Hágsater et Dodson, *sp. nov.*

Type: ECUADOR: Zamora-Chinchipec: Nambija, 1800 m, hort. Ecuagenera 8 March 2003. Collected by *Hugo Medina Troyani*. Cultivated by *E. Hágsater 13832*. Holotype: AMO! (Illustration voucher).

Epidendro batesii Dodson simile sed foliis oblongis rotundatis, petalis lineari-ellipticis 3-nervatis, nervis ramosis, labello integro cordiformi, ad basem profunde cordato, apiculato, nectario brevior in 2/3 ovarii partes penetranti recedit.

Hierba epífita, ramificada, de ca. 35 cm de alto. **Raíces** basales, carnosas, delgadas. **Tallos** ramificados, tipo caña, lateralmente aplanados, delgados, ligeramente flexuosos, el basal de más de 11 x 0.3-0.4 cm; las ramificaciones cortas, escasas, volviendo a ramificarse de los entrenudos intermedios a superiores de la rama anterior, 8 x 0.25 cm. **Hojas** 10, distribuidas a lo largo de los tallos, subcoriáceas, alternas, erectas; vaina tubular, lateralmente comprimida, estriada y rugosa, 7-12 x 2.5-4.0 mm; lámina oblonga, ápice subredondeado, aristado, lisa, margen denticulado, 1.5-2.3 x 0.4-0.5 cm. **Bráctea espátacea** ausente. **Inflorescencia** apical, racemosa, sésil; pedúnculo nulo. **Brácteas florales** mucho más cortas que el ovario, triangulares, agudas, abrazadoras, 5 mm de largo. **Flores** una a la vez, no resupinadas, amarillo verdosas con el labelo blanco níveo; sin fragancia. **Ovario** terete, ligeramente inflado ventralmente a lo largo de los 2/3 apicales, liso, 2.5 cm de largo. **Sépalos** extendidos, libres, oblongo elípticos, agudos, dorsalmente carinados, 7-nervados, 5-nervaduras principales y 2-cortas, margen entero, no ornamentados, 15-16 x 3.6-4.2 mm; los laterales oblicuos. **Pétalos** extendidos, libres, linear elípticos, agudos, 3-nervados, las nervaduras cortamente ramificadas, margen entero, 14 x 2.4 mm. **Labelo** unido a la columna, entero, cordiforme, profundamente cordado en la base, ápice apiculado, margen crenado, 12 x 11.5 mm; bicalloso, los callos laminares, delgados; provisto de una carina, lisa, baja, que se desvanece antes de llegar al ápice del labelo, superficie diminutamente tuberculada. **Columna** recta, delgada, obcónica en el ápice, 7 mm de largo. **Clinandrium** reducido, margen entero. **Antera** no vista. **Polinios** 4, obovoides, lateralmente comprimidos, desiguales. **Rostelo** apical, hendido. **Lóbulos laterales del estigma** no vistos. **Nectario** penetrando 2/3 del ovario, delgado, no inflado, liso. **Cápsula** no vista.

Epiphytic, branching herb. **Roots** basal, fleshy, thin. **Stems** branching, cane-like, laterally compressed, thin, slightly flexuous, the basal stem longer than the branches which are produced from the middle to upper internodes of the previous stem. **Leaves** 10, distributed throughout the stems, subcoriaceous, erect; sheath tubular, laterally compressed, striated and rugose; blade oblong, apex sub rounded, aristate, smooth, margin denticulate. **Inflorescence** apical, racemose, sessile. **Floral bracts** much shorter than the ovary, triangular, acute. **Flowers** one at a time, non-resupinate, greenish yellow with the lip snow-white. **Ovary** terete, slightly inflated ventrally along the upper 2/3, smooth. **Sepals** spreading, free, oblong-elliptic, acute, dorsally carinate, 7-veined, 5 main veins with 2 secondary veins, margin entire. **Petals** spreading, free, linear-elliptic, acute, 3-veined, the veins short-branched, margin entire. **Lip** united to the column, entire, cordiform, deeply cordate at the base, apex apiculate, margin crenate; bicallose, the calli laminar, thin, provided with a low, smooth keel which disappears before the apex of the lip; surface minutely tuberculate. **Column** straight, thin, dilated towards the apex. **Clinandrium** reduced, margin entire. **Pollinia** 4, obovoid, laterally compressed, unequal. **Nectary** penetrating 2/3 of the ovary, narrow, smooth.

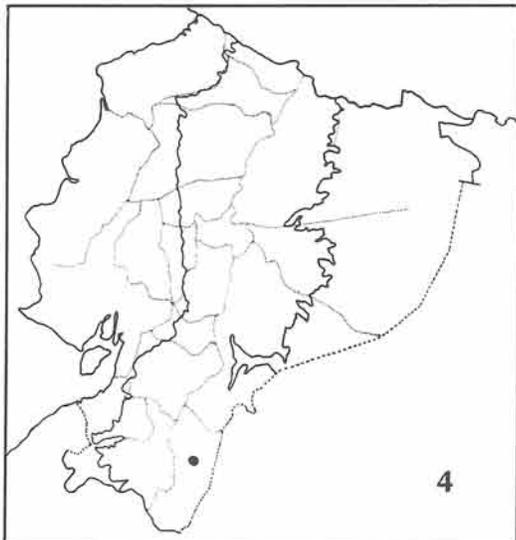
OTHER SPECIMENS: None seen.

DISTRIBUTION AND ECOLOGY: Known only from one cultivated plant said to have come from southeastern Ecuador, growing epiphytic at 1800 m altitude. Flowering in March.

RECOGNITION: *Epidendrum cardiobatesii* belongs to the Cardiophyllum Group, Batesii Subgroup, which is characterized by the main stem with a subapical branching habit, acute leaves, successive flowers, opening one at a time, deep nectary, entire to 3-lobed lip with the lateral lobes more or less fimbriate to erose. The new species has oblong, subrounded leaves, 15-16 mm-long sepals, linear-elliptic, 3-veined, branched petals and a deeply heart-shaped, apiculate lip. It is similar to *Epidendrum batesii* which has yellow to pinkish tepals with a white lip, 3-lobed lip with the midlobe short and truncate. *Epidendrum oxybatesii* Hágsater & Dodson has pale, yellowish green, concolor flowers, acuminate tepals, deeply 3-lobed lip with the semiovate, dolabriform, lateral lobes narrower at the junction, crenate to lacinate margin, and an acicular midlobe. *Epidendrum acrobatesii* Hágsater & Dodson has smaller flowers, the sepals being 11-12 mm-long, narrower, linear-oblancoolate, 1-veined petals and a truncate, obtuse midlobe. *Epidendrum silverstonei* Hágsater has oblancoolate, rounded, 3-veined petals and an entire, suborbicular, deeply cordate lip. *Epidendrum farallonense* Hágsater has smaller flowers, and a large, rectangular, truncate midlobe of the lip. *Epidendrum laceratum* C. Schweinf. has narrow, linear-elliptic leaves, small flowers, 5.5-6 mm-long sepals, linear-elliptic, 3-veined petals and an entire, deeply lacerate lip with an entire, triangular-ovate, obtuse apex.

CONSERVATION STATUS: DD. Data deficient.

ETYMOLOGY: From the Greek καρδία- heart, and Bates in reference to the similarity between this species and *Epidendrum batesii* but differentiated by the deeply heart-shaped lip. Will L. Bates of Corpus Christi, Texas supported orchid work for many years, was a member of the Board of Trustees of the American Orchid Society and maintained a marvelous collection of hybrid and species orchids.



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