

Grimmia involucrata Card. - Rev. Bryol. 36: 105. 1909.

Type: Mexico, Hidalgo, Cuyamaloya, 8500 ft, Sept. 1908, leg. Pringle No. 10598, herbarium Cardot, lectotype, designated by Muñoz (1999), PC!; isolectotype PC!

Distribution: Am.2

Description

Grimmia involucrata grows in olive-green to blackish patches with erect stems. The leaves are imbricate when dry, erect-spreading when moist, ovate- to oblong-lanceolate, concave-keeled above, the perichaetial leaves are enlarged, the costa is weak, excurrent, not projecting on dorsal side, the hair-point are ± 1.0 mm long, denticulate, flattened below and slightly decurrent, the margins are plane, incurved above. The distal areolation is bistratose, the mid-leaf cells are isodiametric with straight to slightly sinuose walls, the basal marginal cells are quadrate with thickened transverse walls, and the basal juxtacostal cells are quadrate to short-rectangular with thin walls. The sexuality is autoicous, and immersed capsules on straight setae are usually present, they are ovoid, symmetrical and smooth, the peristome teeth are smooth in lower third part, papillose above, and the operculum is conic to rostellate

Discussion

Grimmia involucrata, a Mexican endemic, is characterized by clavate stems, gonio-autoicous sexuality, enlarged perichaetial leaves, usually present immersed symmetrical capsules, and a smooth basal third of the outer plates of the peristome teeth. In the past, it has been confused with *G. affinis* (Crum 1994), *G. americana* (Whitehouse & McAllister 1954), and *G. tergestina*. *G. affinis* (= *G. longirostris*) has clearly exserted capsules, *G. americana* has usually present ventricose capsules and *G. tergestina* is dioicous and capsules are only occasionally present. The distribution, ecology and morphology of *G. involucrata* is discussed in detail in Delgadillo (1999).

Specimens examined

Mexico. Hidalgo, Cuyamaloya, Sierra de Pachuca, leg. C.G. Pringle nr. 10598, 17-09-1908, MICH!; Distrito Federal: Zacatenco, leg. Amable nr. 1352, 26-11-1925, BM!

References

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