



# BRYOPHYTES of Australia

## *Entosthodon productus* Mitt.

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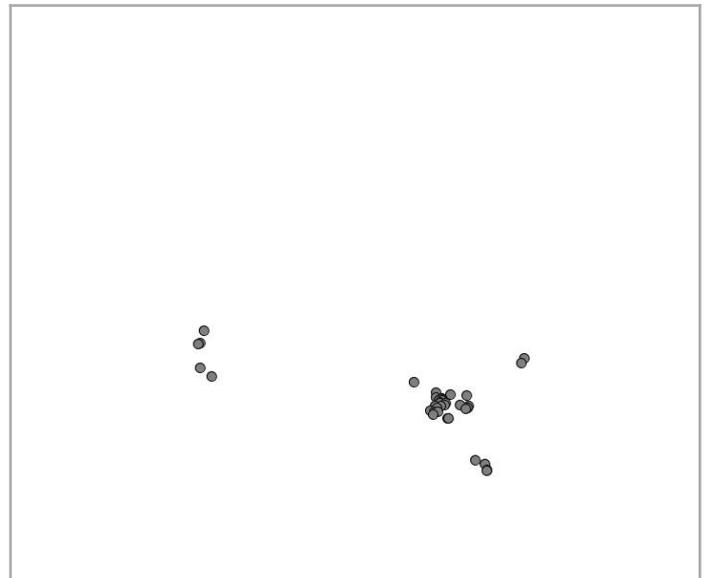


## ***Entosthodon productus* Mitt.**

Allan J. Fife & Rodney D. Seppelt

Plants yellowish green. Stems reddish brown, to 4 mm long, branching once by subperigonal innovation or with multiple perigonia, with reddish brown rhizoids; hyalodermis faint (usually only a thin outer wall of an otherwise thick-walled epidermal cell). Leaves erect, ovate-lanceolate, 0.7–1.7 (–2.2) mm long, 0.2–0.4 (–0.6) mm wide, concave to subtubulose, gradually or abruptly tapered to a subulate apex; costa 25–37  $\mu\text{m}$  wide near the base, disappearing in the acumen; margins entire. Upper laminal cells oblong, 25–70  $\times$  12–15  $\mu\text{m}$ , somewhat longer (to c. 105  $\mu\text{m}$ ), laxer and more hexagonal below; marginal cells not differentiated; apical cells 30–48  $\mu\text{m}$  long; alar cells not differentiated. Perigonia single or multiple. Calyptra cucullate, long-rostrate. Setae 2.5–9.0 mm long, twisted to the left throughout, reddish brown, weakly hygroscopic. Capsules erect, symmetrical, oblong-pyriform, not or very weakly constricted below the mouth when dry, 1.0–1.3 mm long, 0.5–0.7 mm wide, with a gradually tapered irregularly wrinkled neck c. half the capsule length, reddish brown at maturity; mouth c. 3/4 the diameter of the capsule (at dehiscence), transverse, gymnostomous; exothecial cells c. 30–60  $\mu\text{m}$  long, 3–6:1, with thick cuneate anticlinal walls, 6–8 rows oblate and more pigmented at the mouth; operculum plano-convex, 325–450  $\mu\text{m}$  diam. Peristome absent. Spores 30–36  $\mu\text{m}$ , verrucate-bullate and usually irregularly wrinkled, usually with an obvious trilete scar.

*Distribution:* Occurs on damp, often shaded soil in scrub or grassland in W.A., S.A., Vic. and Tas.; also in New Zealand.



*Representative Herbarium Specimens:* W.A.: Lesmurdie, *D.G.Catcheside* 73.202.  
S.A.: Bellevue Heights, *D.G.Catcheside* 79.134.  
Vic.: Nigretta Falls, Hamilton, *D.G.Catcheside* 77.143.  
Tas.: Blackmans Bay, *W.A.Weymouth* 247.

*Nomenclature And Typification:* ***Entosthodon productus*** Mitt., in J.D.Hooker & W.M.Wilson, *Fl. Tasman.* 2: 197 (1860); *Funaria producta* (Mitt.) Broth., in H.G.A.Engler & K.A.E.Prantl, *Nat. Pflanzenfam.* 1(3): 522 (1903). T: behind Cummings Head, Western Mtns, Tas., *Archer*; holo: NY-Mitten; iso: BM-Hooker.  
*Entosthodon minuticaulis* Müll.Hal. ex Geh., *Rev. Bryol.* 24: 72 (1897); *Funaria minuticaulis* (Müll.Hal. ex Geh.) Watts & Whitel., *Proc. Linn. Soc. New South Wales, Suppl.* 30: 115 (1906). T: Moyston, Vic., *D.Sullivan*; H-BR.  
*Funaria perpusilla* Broth., *Proc. Linn. Soc. New South Wales* 41: 583 (1916). T: Heyington, Vic., *W.W.Watts* 196; holo: H-BR.

*Taxonomic Notes:* *Entosthodon productus* is closely allied to *E. jamesonii* (Taylor) Mitt. of the Andes, Central America and Malesia (Fife, 1987), and it could be treated as a subspecies of the latter. However, because of its consistently smaller stature (leaf dimensions, seta length and capsule size) and geographical distribution, *E. productus* is retained here.



