

***Pertusaria hartmannii* Müll.Arg., *Flora* 65: 485 (1882)**

*Pertusaria trypetheliiformis* Nyl. var. *hartmannii* (Müll.Arg) Müll.Arg., *Flora* 67: 351 (1884). T: Toowoomba, Qld, *C.Hartmann s.n.*; holo: G.

*Pertusaria muelleriana* Zahlbr., *Cat. Lich. Univ.* 5: 181 (1928); *P. albinea* Müll.Arg., *Bull. Herb. Boissier* 3: 635 (1895), *nom. illeg., non P. albinea* Tuck., *Proc. Amer. Acad. Arts Sci.* 12: 177 (1877). T: Goodna, Qld, 1893, *J.Shirley 1754 p.p.*; holo: G.

Illustration: A.W.Archer, *Biblioth. Lichenol.* 69: 76, fig. 21 (1997).

Thallus thin, pale greyish white to greenish white, continuous or slightly cracked, smooth to somewhat wrinkled, dull. Soredia and isidia absent. Apothecia conspicuous, scattered, occasionally confluent, verruciform, slightly flattened-hemispherical or irregular in outline, becoming constricted at the base, 0.5–1.5 (–2.5) mm diam. Ostioles conspicuous, black, 1–8 per verruca. Ascospores 2 per ascus, elongate-ellipsoidal, smooth, 120–170 (–200) × 35–60 µm.

*Chemistry*: Thallus K+ yellow then red, KC–, C–, Pd+ yellow; containing norstictic acid (major), ±perlatolic acid (major to minor), connorstictic acid (trace), ±stenosporic acid (trace) and ±lichexanthone (trace).

An endemic, corticolous species in eastern Qld.

Qld: Two-Mile Falls, 29 km SE of Blackwater, *J.A.Elix 34419* (CANB); Mt Fox, 43 km S of Ingham, *J.A.Elix 20365* (CANB); Noosa R., 70 km S of Gympie, *J.Hafellner 18278* (GZU); Weyba Ck, S of Noosa Heads, *G.N.Stevens 2373* (BRI).

The species is characterised by 2-spored asci and the presence of norstictic acid in the thallus, usually with perlatolic acid. Externally, it resembles *P. thwaitesii*, but that species contains protocetraric acid and has rough, rather than smooth, ascospores. The two can be readily differentiated by their reaction with KOH.