

Pertusaria thiospoda C.Knight, *Trans. Linn. Soc. London, Bot.* 2: 47 (1882)

T: [near Sydney], N.S.W., *C.Knight 20*; holo: WELT.

Pertusaria leiotera Müll.Arg., *Flora* 67: 285 (1884). T: Rockhampton, Qld, *Thozet s.n.*; holo: BRI.

Pertusaria minuta C.Knight, in J.Shirley, *Proc. Roy. Soc. Queensland* 6: 143 (1889). T: Qld, *s. loc.*, *F.M.Bailey s.n.*; holo: WELT.

Pertusaria schizostomella Müll.Arg., *Bull. Herb. Boissier* 3: 637 (1895). T: N.S.W., *s. loc.*, 1887, *C.Knight 31*; holo: G.

Illustration: A.W.Archer, *Biblioth. Lichenol.* 69: 154, fig. 56 (1997).

Thallus pale yellowish white to pale yellow, thin, slightly cracked, smooth and dull. Soredia and isidia absent. Apothecia inconspicuous, verruciform, scattered, sometimes confluent, flattened-hemispherical, not constricted at the base, 0.5–1.0 mm diam. Ostiole punctiform, black, sometimes surrounded by a pale yellow-brown translucent zone, plane or becoming concave, sometimes with a yellow-brown translucent zone only, 1 per verruca. Ascospores 2 per ascus, ellipsoidal, smooth, 80–110 (–120) × 30–40 µm.

Chemistry: Thallus K–, KC+ yellow orange, C+ orange, Pd–; containing thiophanic acid (major), stictic acid (major), constictic acid (minor to trace) and 2-chloro-6-*O*-methylnorlichexanthone (trace).

A predominantly coastal, corticolous species in W.A., N.T., Qld, N.S.W. and Tas.; also in Lord Howe Is., Norfolk Is. and islands off the North Island of New Zealand.

W.A.: East Wallaby Is., Houtmans Abrolhos, *N.Sammy s.n.* (PERTH 921107). N.T.: Bend 7, Tomkinson R., Arnhem Land, *D.Grace s.n.* (MEL 1013779). Qld: 68 km N of Injune, *J.A.Elix 34045* (CANB). N.S.W.: Newport [Newport Beach, 26 km N of Sydney], Oct. 1888, *F.R.M.Wilson* (NSW). Tas.: Hogans Is., Bass Strait, *J.S.Whinray s.n.* (MEL 1013008).

The species is characterised by the 2-spored asci and the presence of thiophanic and stictic acids in the thallus. Specimens of *P. thiospoda* usually show a bright orange fluorescence under long wavelength UV light due to the thiophanic acid.