

GROUP L

[Thallus corticolous, fertile; apothecia disciform; asci 8-spored]

- 1 Thallus K+ yellow, KC-, Pd+ yellow; thamnolic acid present**P. thamnolica**
1: Thallus K-, KC+ violet, Pd-; picrolichenic acid present**P. truncata**

Pertusaria thamnolica A.W.Archer, *Mycotaxon* 44: 16 (1992)

T: E side of Mooney Mooney Ck, c. 8 km WSW of Gosford, N.S.W., 33°26'E, 151°15'S, 24 May 1991, A.W.Archer P178; holo: NSW; iso: CANB.

Illustration: A.W.Archer, *op. cit.* 15, fig. 4 (1992).

Thallus off-white to pale grey, areolate and cracked, smooth and dull. Soredia and isidia absent. Apothecia conspicuous, scattered, disciform; disc pale orange, white-pruinose, 0.5–1.5 mm diam., with thick inrolled margins. Ascospores 8 per ascus, uniseriate, ellipsoidal, smooth, 22–32 × 12–17 µm; ascospore wall c. 1 µm thick.

Chemistry: Thallus K+ yellow, KC-, C-, Pd+ yellow; containing thamnolic acid (major).

An uncommon, corticolous species in eastern N.S.W.; also in New Zealand.

N.S.W.: Old Lindesay Hwy, 7 km NE of Woodenbong, A.W.Archer P401 (NSW); Gibraltar Range Natl Park, 60 km ENE of Glen Innes, A.W.Archer P440 (NSW); Buckenbowra R., 7.5 km W of Batemans Bay, J.A.Elix 22630 (CANB).

Pertusaria thamnolica is characterised by 8-spored asci and the presence of thamnolic acid. The latter feature distinguishes it from *P. truncata*.

Pertusaria truncata Kremp., *Verh. K.K. Zool.-Bot. Ges. Wien*, B, 26: 452 (1876)

T: [probably Wellington], New Zealand [*vide* G.Kantvilas, *Lichenologist* 22: 299, 1990], C.Knight 46; holo: M. *Pertusaria nothofagi* Zahlbr., *Denkschr. Akad. Wiss. Wien Math.-Naturwiss. Kl.* 104: 337 (1941). T: Silver Peaks, near Dunedin, Otago, New Zealand, J.S.Thomson ZA 281; lecto: W, *vide* G.Kantvilas, *loc. cit.*; isolecto: CHR 374716.

Illustration: G.Kantvilas, *Lichenologist* 22: 291, fig. 1C.

Thallus pale greyish white to dull grey, thick and cracked, smooth. Soredia and isidia absent. Apothecia often numerous and conspicuous, disciform; disc pale orange-brown to grey, densely white-pruinose. Ascospores 8 per ascus, uniseriate, ellipsoidal, smooth, 19–27 × 12–15 µm.

Chemistry: Thallus K+ weak orange-brown, KC+ violet, C-, Pd-; containing picrolichenic acid (major), isohyperpicrolichenic acid (major), hyperpicrolichenic acid (minor) and subpicrolichenic acid (minor). The chemistry of *P. truncata* was reported in detail by Elix *et al.*, *Austral. J. Chem.* 44: 1487 (1991); *ibid.* 47: 1345 (1994).

Corticolous, usually on *Nothofagus*, in rainforest in Vic. and Tas.; especially common in Tas. and also in New Zealand.

Vic.: Mt Donna Buang, 5 km NNW of Warburton, H.Streimann 36245 (CANB); Mt Boobyalla, 6 km N of Warburton, R.Filson 7029 (MEL). Tas.: 35 km NNE of Savage R., H.Streimann 40141 (CANB); near Picton, G.C.Bratt 74/391 (HO); near Pencil Pine Ck, Cradle Mountain Natl Park, W.A.Weber (COLO L49471).

The species is characterised by asci with 8 small ascospores and the presence of picrolichenic acid in the thallus.