

Pertusaria glomelliferica Elix & A.W.Archer, in J.A.Elix, S.Jariangprasert & A.W.Archer, *Telopea* 12: 268 (2008)

T: Burma Rd, 29 km SE of junction with Walkaway–Nangetty road, W.A., 29°04'07"S, 115°09'26"E, alt. 240 m, 4 May 2004, *J.A.Elix 33773*; holo: PERTH.

Illustration: J.A.Elix, S.Jariangprasert & A.W.Archer, *op. cit.* 267, fig. 6 (2008).

Thallus pale to medium yellow, smooth and dull, lacking isidia and soredia. Apothecia verruciform, concolorous with the thallus, conspicuous, numerous, scattered or crowded, occasionally confluent, hemispherical to flattened-hemispherical, not constricted at the base, 0.50–0.75 (–1.0) mm diam. Ostioles black, punctiform, 0.1–0.2 mm diam., 1 (–4) per verruca, sometimes in a pale yellow translucent zone. Asci amyloid with a distinctive ocular chamber; hymenium non-amyloid. Ascospores elongate-ellipsoidal, hyaline, smooth, (2) 3 per ascus, 80–105 (–120) × (25–) 30–36 (–40) μm.

Chemistry: containing thiophanic acid (major), glomelliferic acid (major or minor), 2-chloro-6-*O*-methylnorlichexanthone (minor), 4-chloro-6-*O*-methylnorlichexanthone (minor), ± 4-*O*-demethylglomelliferic acid, ± glomellic acid (minor).

An uncommon corticolous species in W.A. and S.A.

W.A.: nature reserve, Coolimba–Eneabba road, 20 km by road W of Enneaba, *J.A.Elix 28904*(CANB); Ellendale Pool, 23 km W of Walkaway, *J.A. Elix 33761* (CANB); Wabeling, Moora–New Norcia road, Quarrell Ra., *J.A.Elix 37563B* (CANB); Kalbarri Natl Park, 24 km NW of Kalbarri township, *J.A.Elix 33650* (CANB). S.A.: Ferries–McDonald Conservation Park, 10 km S of Monarto, *J.A.Elix 39370* (CANB).

Pertusaria glomelliferica is characterised by the yellow thallus and ostioles, asci with 2 or 3 ascospores and the presence of glomelliferic acid. This compound has previously been found in only one species of *Pertusaria*, viz. *P. corrugata* Kremp. from Brazil. Glomelliferic acid is closely related to perlatolic acid, derivatives of which are common in the genus.