

***Pertusaria undulata*** Müll.Arg., *Hedwigia* 32: 126 (1893)

T: Qld, *s. loc.*, *C.Hartmann s.n.*; holo: G; iso: BM.

Thallus off-white to pale yellowish white, coarsely cracked and areolate, dull and slightly rough. Soredia and isidia absent. Apothecia inconspicuous, verruciform, flattened-hemispherical or irregular in outline, becoming slightly constricted at the base, occasionally concave above, 0.4–0.6 mm diam. Ostioles inconspicuous, black, 1 or 2 per verruca. Ascospores 8 per ascus, irregularly biseriata, elongate-ellipsoidal to subfusiform, smooth,  $67\text{--}85 \times 27\text{--}35 \mu\text{m}$ .

*Chemistry*: Thallus K+ yellow then red, KC–, C–, Pd+ yellow; containing 4,5-dichlorolichexanthone (major), norstictic acid (major) and connorstictic acid (trace).

Endemic and corticolous in Qld and eastern N.S.W.

N.S.W.: Mylestom, E bank of Bellinger R., 20 km SSW of Coffs Harbour, *A.W.Archer P892* (NSW).

*Pertusaria undulata* is characterised by 8-spored asci and the presence of 4,5-dichlorolichexanthone and norstictic acid in the thallus.