

***Pertusaria cyathicola* Elix, *Mycotaxon* 94: 223 (2005)**

T: West Palm Glen Track, Norfolk Island National Park, Norfolk Island, 29°01'6"S, 167°56'55"E, alt. 140 m, 16 June 1992, *J.A.Elix 29043*; holo: CANB.

Thallus crustose, off-white to pale greyish white, slightly cracked and areolate, slightly wrinkled and dull, verruculose, soon developing soredia, lacking isidia. Soralia yellow to yellow-orange, numerous, conspicuous, discoid or subhemispherical, often constricted at the base, 0.5–2.0 mm wide; soredia farinose. Apothecia and pycnidia unknown.

Chemistry: containing stictic acid (major), constictic acid (minor), arthothelin (minor), thuringone (minor), 3-*O*-methylthiophanic acid (trace), peristictic acid (trace), substictic acid (trace), hypostictic acid (trace) and novostictic acid (trace).

This endemic species is known only from the type locality in Norfolk Island where it is corticolous on *Cyathea*.

Pertusaria cyathicola is characterised by the conspicuous yellow to yellow-orange soralia and the presence of arthothelin, thuringone, stictic acid and constictic acid as the major lichen substances. Morphologically, it closely resembles *P. erythrella* (*q.v.*), but that species has white soralia and it contains lichexanthone and the norstictic acid chemosyndrome.