**Leocarpus fragilis** (Dicks) Rostaf.

**Date**: 26 Nov. 2012  Black Sugarloaf, Birralee (big tree track).

**Habitat**: Closed wet Eucalypt forest.

**Substrate**: Stipe of *Pteridium esculentum* and eucalypt twig.

**Description**: Gregarious and clustered short stalked, ovoid, or short cylindric sporangia, 1.8–2.2 mm tall x 0.7 mm diameter, honey brown and chestnut brown. **Stalk** flat, grooved, pale yellow, essentially an extension of the hypothallus. **Hypothallus** pale yellow, membranous, merging into stalk. **Peridium** brittle, smooth and shiny on the outside, dehiscence irregular or petaloid. Three firmly appressed layers: outer layer cartilaginous and limeless, ochraceous orange; middle layer with lime globules; inner layer colourless, shiny. **Capillitium** duplex: a network of colourless flattened tubules and off white lime connected to inner peridial layer. **Spores** black in mass, brown by transmitted light, paler on one side, warted, 12–14 µm. **Plasmodium** yellow.

**Notes**: Not common at Black Sugarloaf: photographed but not collected on 3 occasions; 2 collections only.