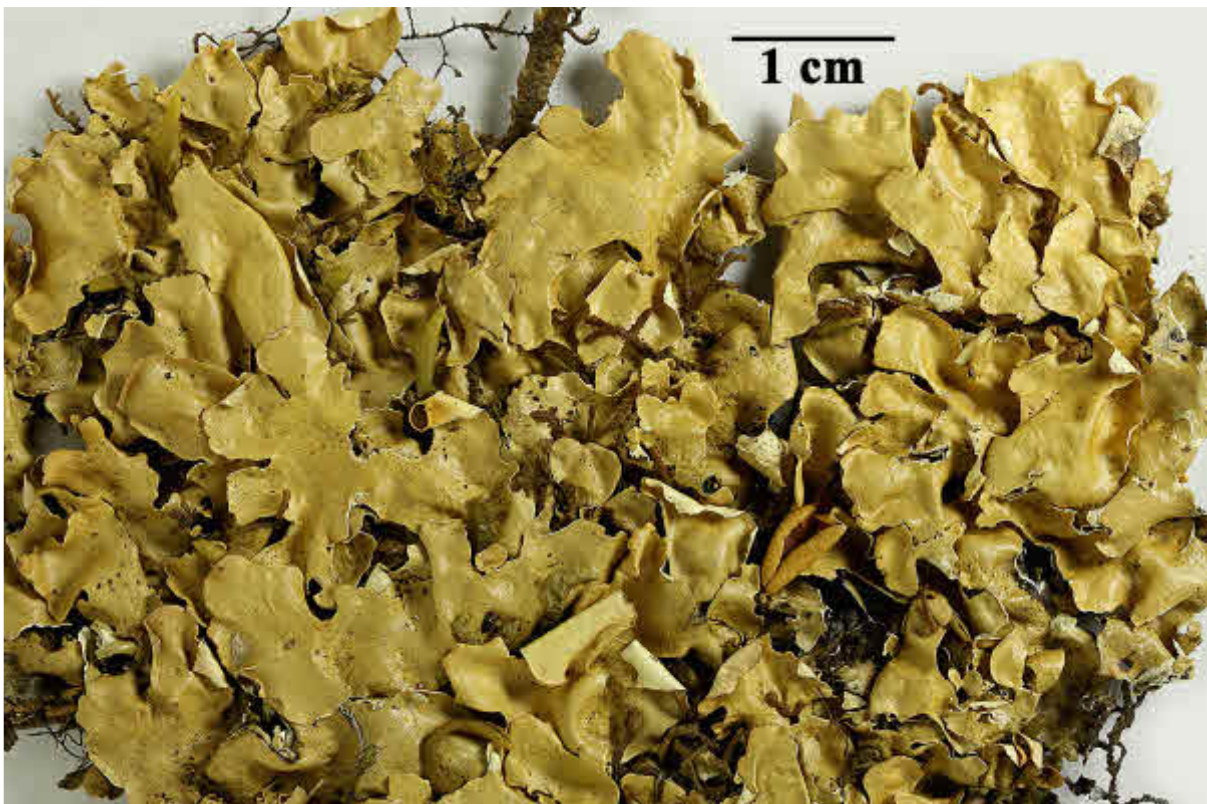


*Nephroma australe* A.Rich.

Upper surface yellowish green or greenish brown, lacking isidia, soredia and maculae. Lower surface brown, creamish whitish to the margins. Medulla white. Photobiont a green alga (*Coccomyxa*).

Ascospores 3-septate, pale brownish, 17-22 x 5-7.5  $\mu\text{m}$ . Chemistry: Race 1 (this specimen) usnic acid, hopane-6 $\alpha$ ,22-diol (major), hypostictic acid (minor), hyposalazinic acid (minor); Race 2 (next specimen) usnic acid, hopane-6 $\alpha$ ,22-diol (major), two unidentified terpinoids with low Rf.

[19087], New Zealand, South Island, Fiordland, Mackay Creek, 21.6 km north of Te Anau Downs, growing in open silver beech forest along the road. Leg. M.E. Hale (63253), 29.01.1984. Chemistry: usnic acid, hypostictic acid, hyposalazinic acid by TLC, anal. J.A. Elix. LICHENES AUSTRALASICI EXSICCATI NO. 086.





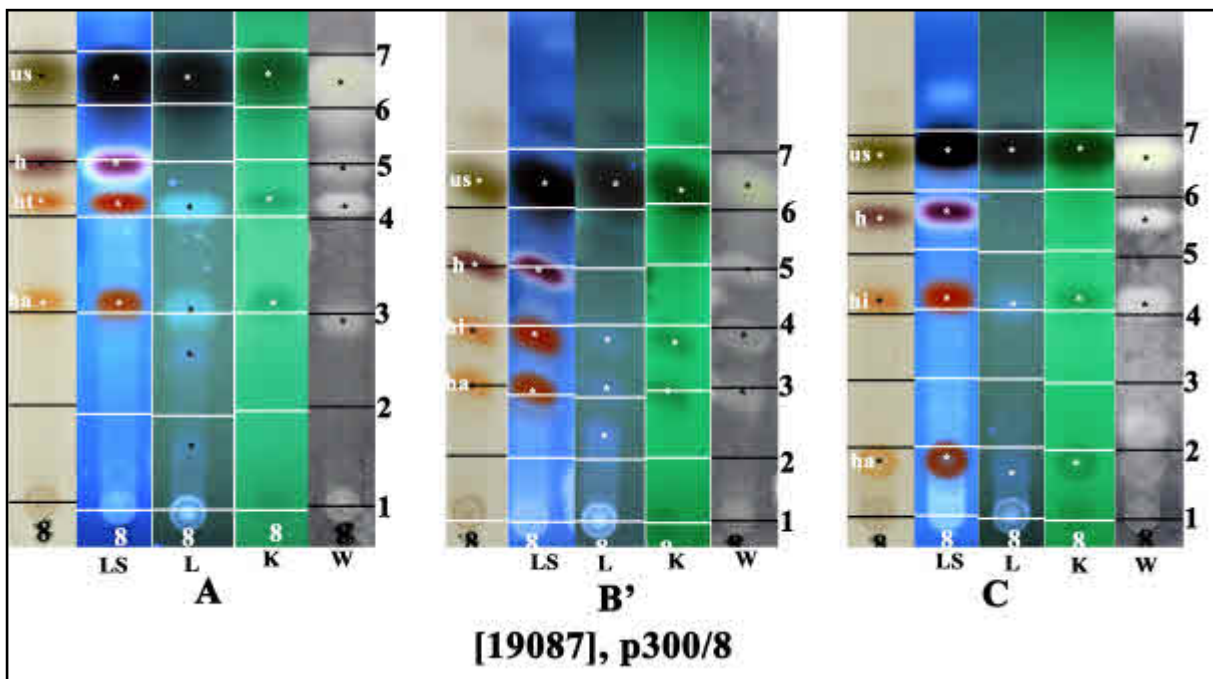
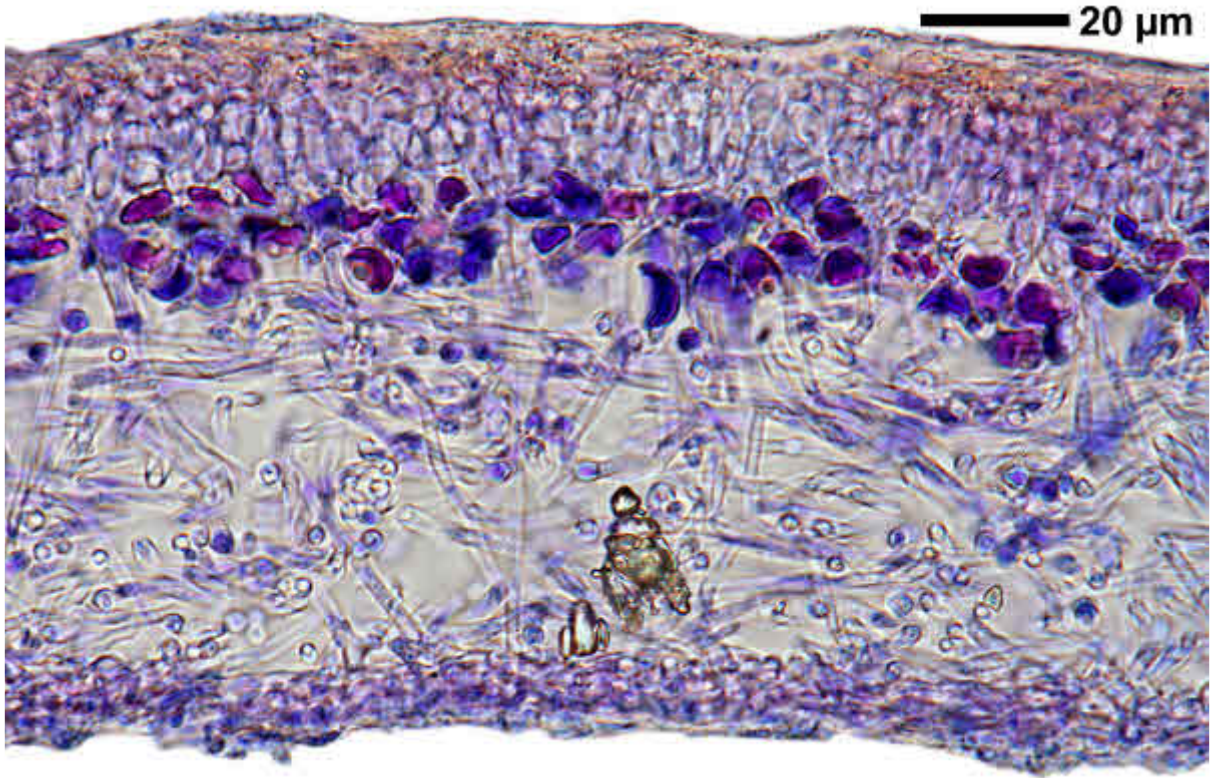
*Nephroma australe*





*Nephroma australe*





us: usnic acid, h:hopane-6 $\alpha$ ,22-diol,  
hi: hypostictic acid, ha: hyposalazinic acid

*Nephroma australe*