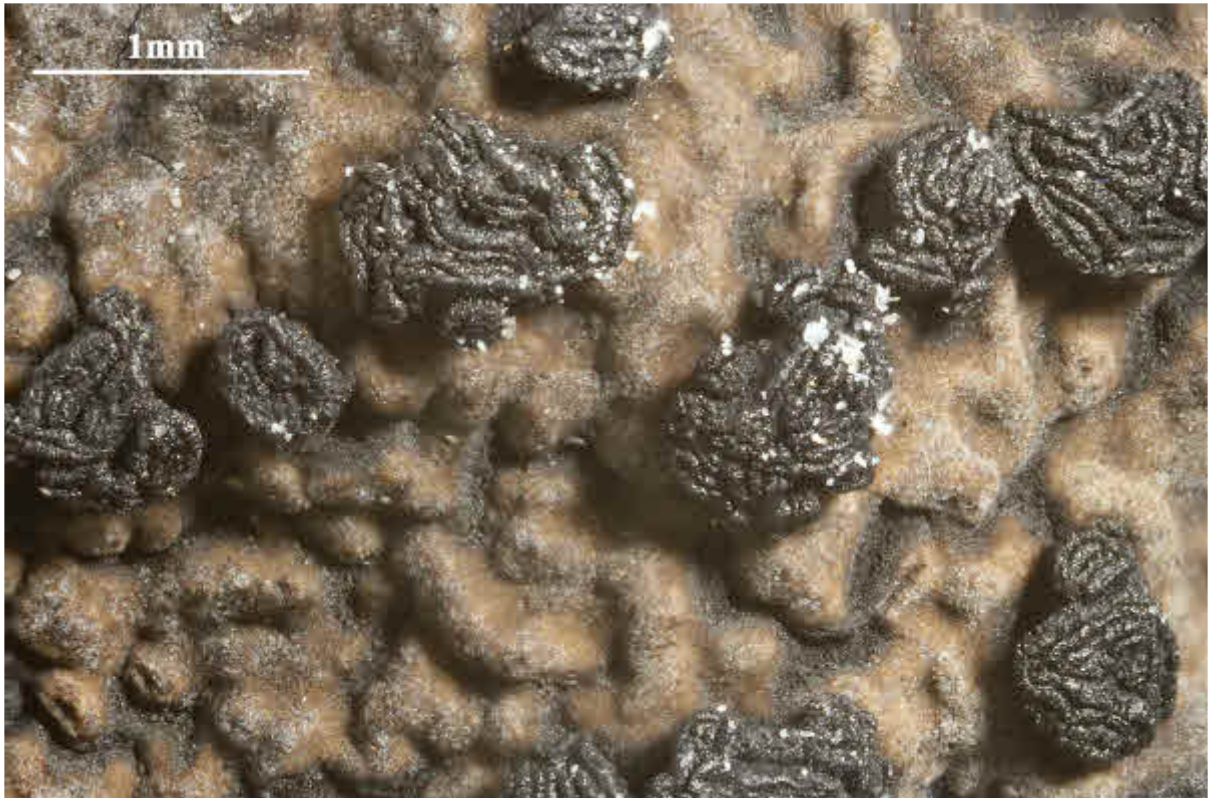


Umbilicaria hyperborea (Ach.) Hoffm.

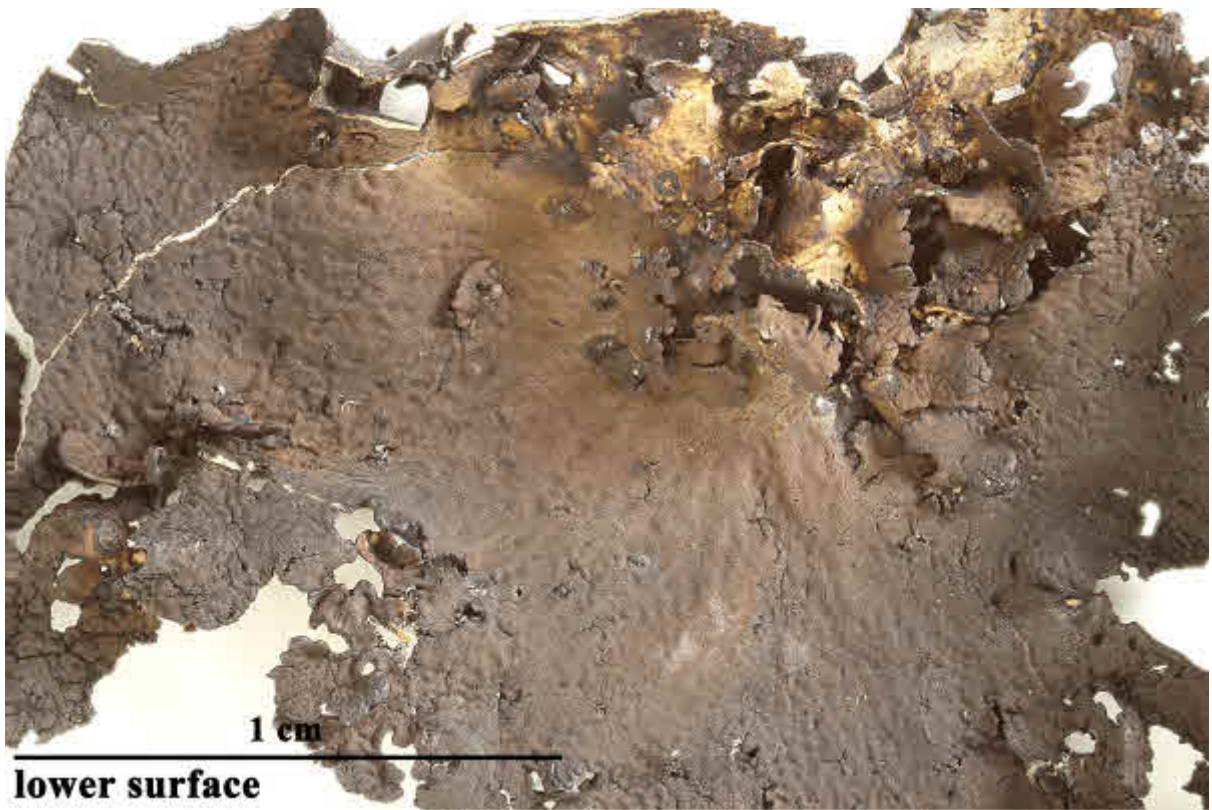
Thallus single-lobed, 2-4 cm diam. Upper surface grey to dark-brown, wrinkled or warted-granular, isidia and soredia absent. Lower surface brown-black, thalloconidia absent. Apothecia 1-2 mm diam., sessile, gyrose. Ascospores simple, hyaline, 7-20 x 3-8 μm . Chemistry: medulla C+ red, K-, KC+ red, P-; gyrophoric acid.

[19288], Australia, Victoria, Mt. McKay, Alpine National Park, Bogong High Plains, 16 km south-east of Mt. Beauty, 36°52' S, 147°14' E, 1840 m, growing on rocks in exposed alpine grasslands with granitic outcrops. Leg. J.A. Elix (40558) & H. Streimann 18.02.1994. Chemistry: gyrophoric acid (major), umbilicatic acid (trace), lecanoric acid (trace) by HPLC, TLC, anal. J.A. Elix. LICHENES AUSTRALASICI EXSICCATI No. 300.





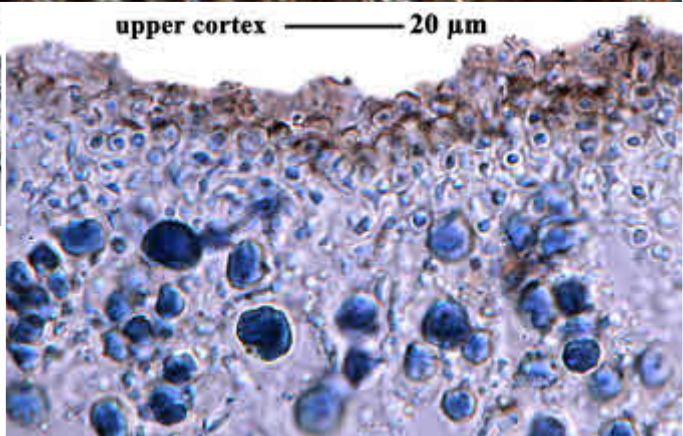
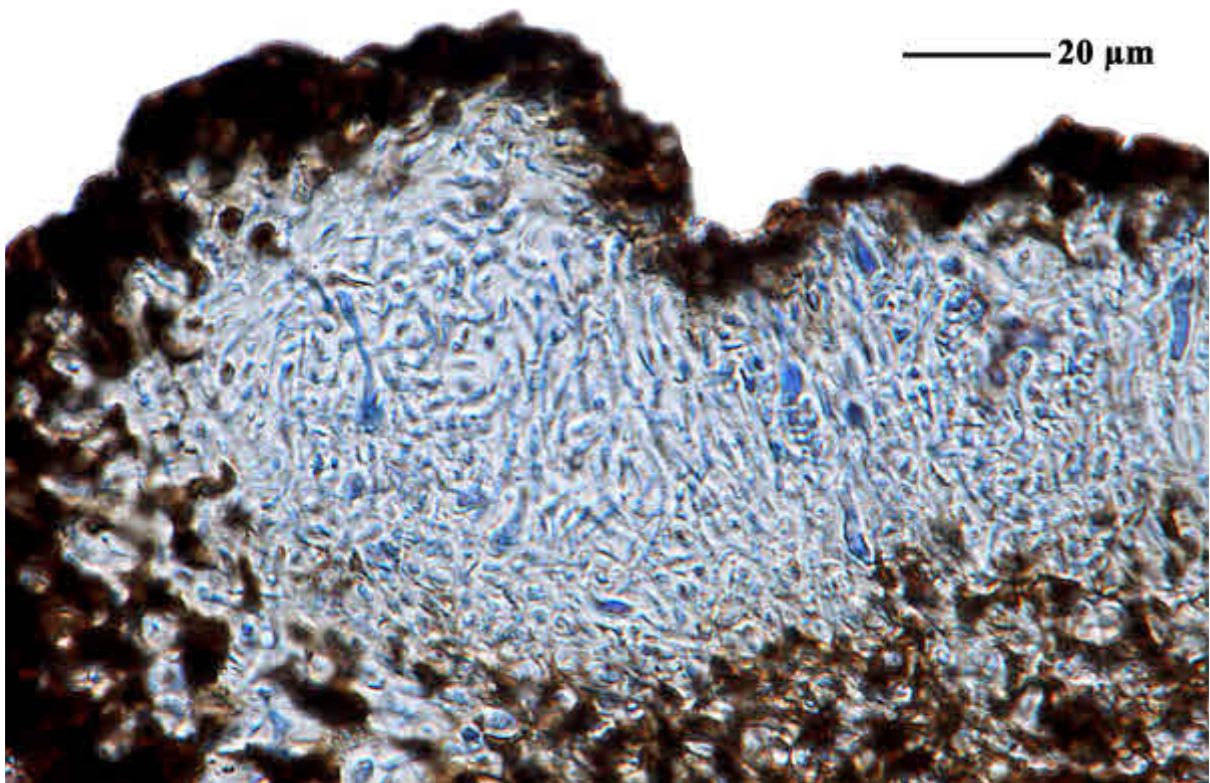
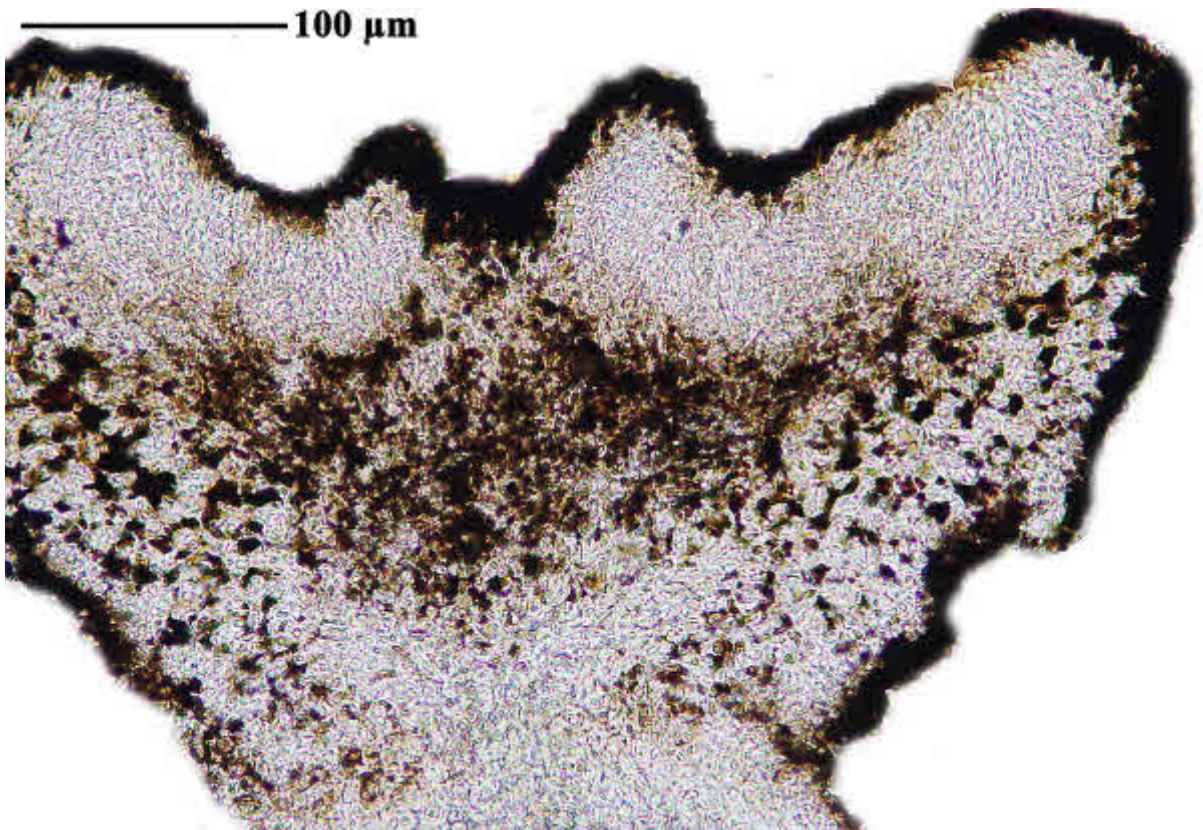
Umbilicaria hyperborea



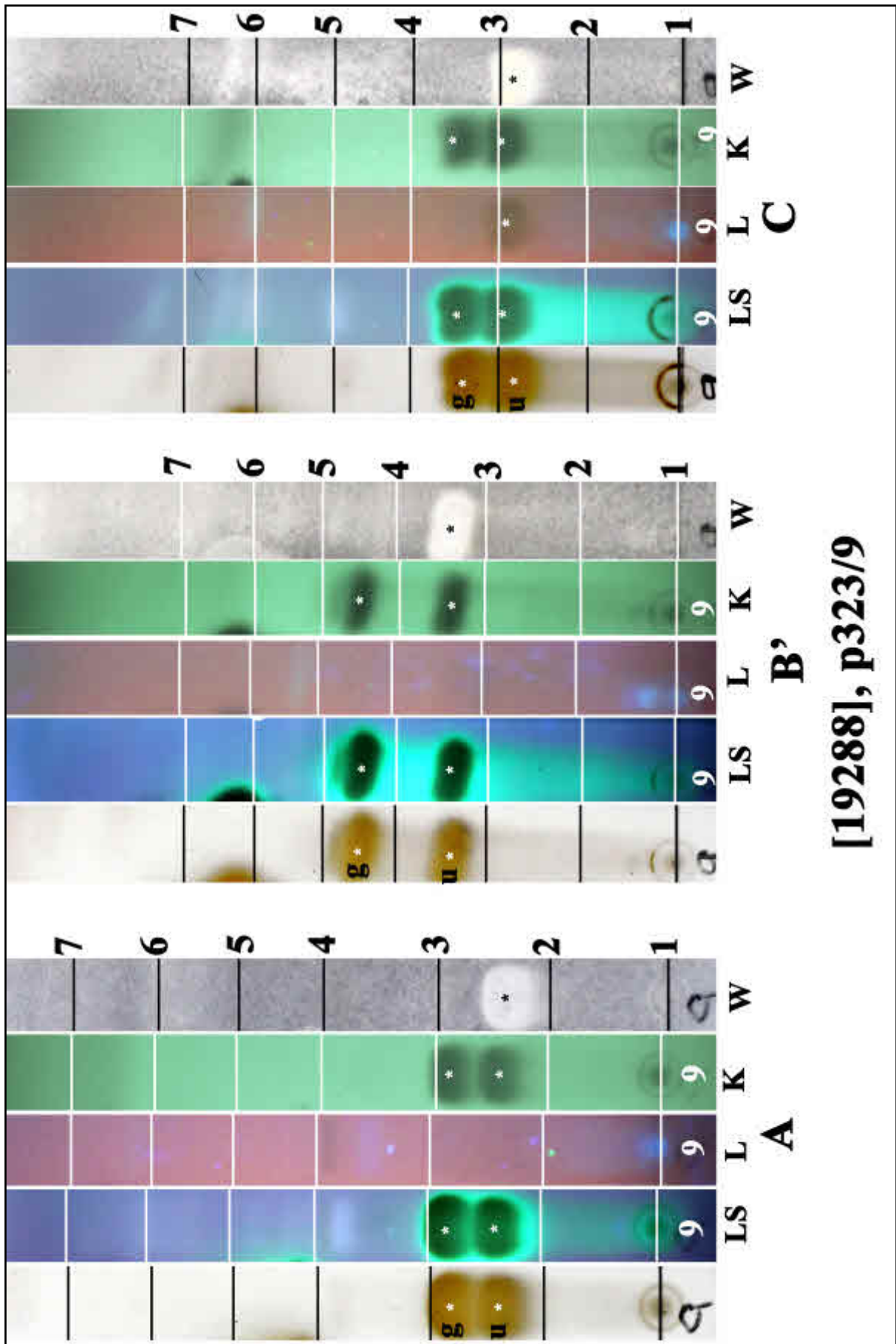
200 μm



Umbilicaria hyperborea



Umbilicaria hyperborea



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g: gyrophoric acid, u: umbilicinic acid

Umbilicaria hyperborea