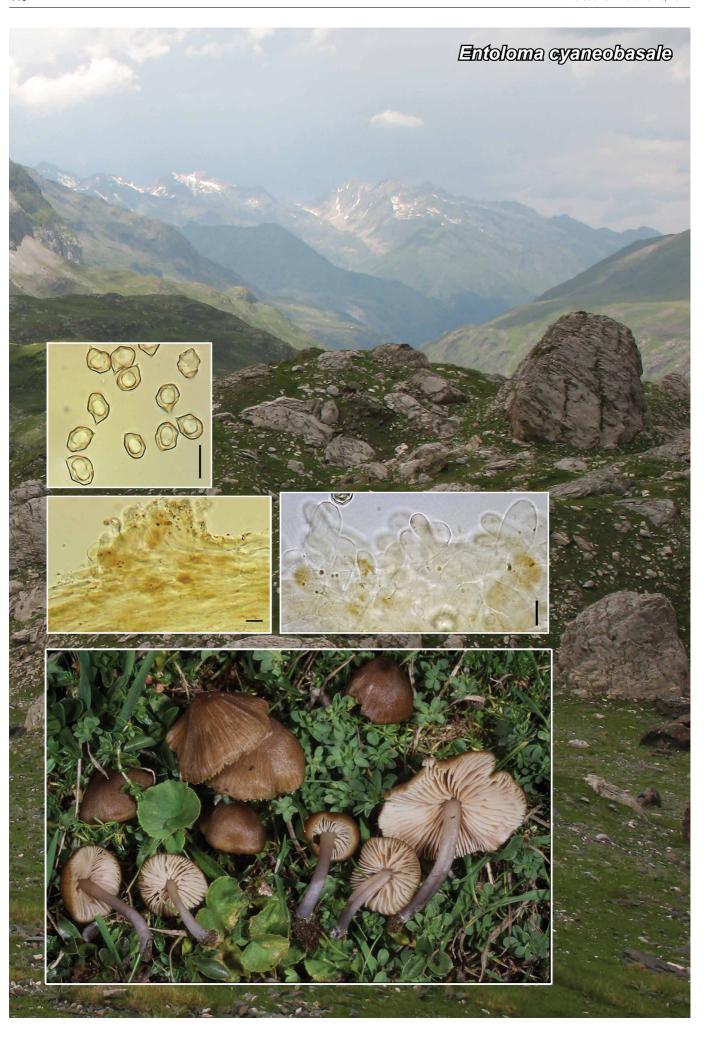
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Entoloma cyaneobasale Corriol, Dima & Noordel., sp. nov.

Etymology. The epithet refers to the blue colour in the base of the stipe (from 'cyaneus', Greek – dark blue, and 'basis', Greek – base).

Classification — Entolomataceae, Agaricales, Agaricomycetes.

Basidiomata medium-sized, collybioid. Pileus 20-40 mm diam, campanulate to convex with incurved margin, then bluntly conico-convex to convex with more or less lobed margin, brown (near 7.5YR3/4) then brown-yellow (10 YR 5.4; Munsell 1954), darker at centre, distinctly hygrophanous (drying to 10 YR 7/3), nearly opaque with only slight striation at margin, entirely fibrillose to sub-squamulose. Lamellae rather distant, deeply emarginate, straight to ventricose, whitish, then pink, with slightly eroded, brown edge. Stipe up to 45 × 4.5 mm, cylindrical, or quite often compressed with groove, initially blue-grey at base (2.5 / PB), and pale greyish at apex (10 YR 7-6/2), typically bicoloured, quickly fading, nearly polished, but with fine fibrillose striation over whole length, with white mycelial base. Context whitish. Smell and taste not noted. Spores $(9-)9.5-11(-11.5) \times (7-)7.5-8.5(-9) \mu m$, av. $10 \times 8 \mu m$, Q = (1.1-)1.15-1.4, Qav = 1.3, shortly heterodiametrical, with 6-8 weak angles, thick-walled, with granular content. Basidia $22-30 \times 10-12 \,\mu\text{m}$, 4-spored, shortly cylindrico-clavate to ventricose, with 3-4 µm long sterigmata, clampless. Lamellae edge sterile, of serrulatum-type, made up of septate cheilocystidia, with terminal elements $35-55 \times 9-13 \mu m$, with brown, intracellular pigment. Pleurocystidia not observed. Subhymenium branched. Pileipellis a trichoderm, with clavate terminal elements, often in clusters, with brown, diffuse, intracellular pigment. Subpellis with concentrated brown intracellular pigment, with abundant brilliant granules and mixed with refringent lactiferous hyphae. Clamp connections absent.

Habitat & Distribution — Terrestrial in alpine snowbed on basic to calcareous soil, together with *Dryas* and *Salix* species. Known from France and Italy.

Typus. FRANCE, Pyrenées-Atlantiques, Eaux-Bonnes, cirque du Plaa Ségouné, Gourette, 2400 m a.s.l., 30 Aug. 2002, *G. Corriol* (holotype GC02083008 in BBF, ITS sequence GenBank MW934560, MycoBank MB 839223)

Additional materials examined. ITALY, Trentino-Alto Adige, Passo dello Stelvio/Stilfser Joch, near Berghotel Franzenshöhe, alpine grassland with Dryas and Salix spp., 2 200 m a.s.l., 30 July 2018, B. Dima, DB-2018-07-30-1 (ITS sequence GenBank MW934561).

Notes — *Entoloma cyaneobasale* falls within the /Mediterraneense clade (see the phylogenetic tree for *E. ammophilum* in Supplementary material FP1240). In the field, these collections were readily identified as *E. glaucobasis* on account of the bicoloured stipe. However, the spores are smaller, the stipe is more polished, and it has a lamella edge of the serrulatum-type with brown pigment. *Entoloma glaucobasis* is also phylogenetically distant, and belongs to the /Griseocyaneum clade.

Colour illustrations. France, Pyrenee-Atlantiques, Eaux-Bonns, cirque du Plaa Ségouné à Gourette, 2400 m a.s.l., calcareous alpine snowbeds on the northern slope of Pyrenees. Spores; cheilocystidia; pileipellis; stipitipellis (all from holotype); basidiomata *in situ* (holotype). Scale bars = 1 cm (basidiomata), 10 µm (spores and microstructures).

Gilles Corriol, National Botanical Conservatory of the Pyrenees and Midi-Pyrénées, Vallon de Salut, BP 70315, 65203 Bagnères-de-Bigorre, France; e-mail: gilles.corriol@cbnpmp.fr Bálint Dima, Department of Plant Anatomy, Institute of Biology, Eötvös Loránd University, Pázmány Péter sétány 1/C,

H-1117, Budapest, Hungary; e-mail: cortinarius1@gmail.com
Machiel E. Noordeloos, Naturalis Biodiversity Center, section Botany, P.O. Box 9517, 2300 RA Leiden, The Netherlands; e-mail: m.noordeloos@mac.com
Viktor Papp, Department of Botany, Hungarian University of Agriculture and Life Sciences, Ménesi út 44.
H-1118 Budapest, Hungary; e-mail: agaricum@gmail.com