

Species recorded or high potential to be recorded in Alberta:

aculeata (Schreber) Fr. Syn.: *Coelocaulon aculeatum*, *Cornicularia aculeate*

arenaria Kärnefelt

ericetorum Opiz subsp. **ericetorum**

ericetorum subsp. **reticulata** (Räsänen) Kärnefelt

islandica (L.) Ach. subsp. **islandica**

islandica subsp. **crispiformis** (Räsänen) Kärnefelt

laevigata Rass.

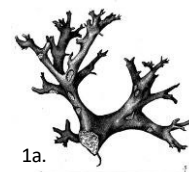
muricata (Ach.) Eckfeldt Syn.: *Coelocaulon muricatum*

nigricans Nyl.

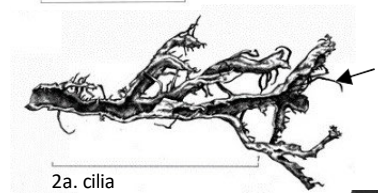
SIMPLIFIED DICHOTOMOUS KEY – *Cetraria*

Modified from the following, in order of contribution: Thomson 1984, Brodo et al. 2001, Goward et al. 1994, Kärnefelt 1979. Drawings by Lucy Taylor, on the Consortium of North American Lichen Herbaria [©](#).

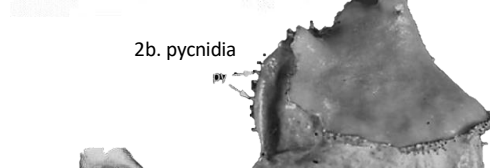
- 1a. Fruticose, with rounded, terete or angular branches in cross-section; terricolous in arid habitats; pseudocyphellae typically depressed *Cetraria aculeata* & *C. muricata*
- 1b. Foliose, branches flattened, often forming tubes that occasionally fuse at edges, appearing fruticose 2
- 2a. Margins ciliate *Cetraria nigricans*
- 2b. Cilia absent but stalked marginal pycnidia may be present (look for a tiny ostiole at the tip of the spine-like projections on the lobe edges) 3
- 3a. Pseudocyphellae laminal AND marginal; northern/mountain habitat, lobes 1-10mm broad, lobes relatively flat and not forming tight tubes, colour often mottled pale, brown and reddish, marginal pycnidia rounded at tip; **PD+ red** (fumarprotocetraric acid) *Cetraria islandica*
- 3b. Pseudocyphellae predominantly marginal 4
- 4a. Southern/temperate habitat, 1-4mm broad, gray-olive brown, marginal pycnidia pointy; PD- *Cetraria arenaria*
- 4b. Northern/arctic, lobes brown to red brown, marginal pycnidia rounded; PD- or **PD+ red** 5
- 5a. Medulla **PD+ red** (fumarprotocetraric acid), pseudocyphellae restricted to margins, forming a broad continuous band at edge of lower cortex *Cetraria laevigata*
- 5b. Medulla PD- 6
- 7a. Smooth surface, canaliculated lobes *Cetraria ericetorum* subsp. *ericetorum*
- 7b. Ridge/pitted/reticulate surface, 1-3 cm tall *Cetraria ericetorum* subsp. *reticulata*



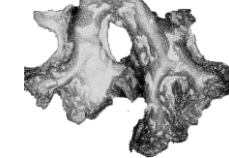
1a.



2a. cilia



2b. pycnidia



3a. Laminal pseudocyphellae on lower lobe†



3b. Marginal pseudocyphellae†



7b.