**Table S1:**

**List of species tested within this study.**

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| 1 | *Andreaea depressinervis* Cardot |
| 2 | *Andreaea nitida* Hook.f. & Wilson |
| 3 | *Blindia magellanica* Shimp. |
| 4 | *Brachythecium rutabulum* (Hedw.) Shimp. |
| 5 | *Brachythecium subplicatum* (Hampe) A.Jaeger |
| 6 | *Breutelia integrifolia* (Taylor) A.Jaeger |
| 7 | *Bucklandiella heterostichoides* (Cardot) Bednarek-Ochyra & Ochyra |
| 8 | *Bucklandiella striatipila* (Cardot) Bednarek-Ochyra & Ochyra  |
| 9 | *Cratoneuropsis chilensis* (Lorentz) Ochyra  |
| 10 | *Distichium capillaceum* (Hedw.) Bruch & Schimp.  |
| 11 | *Ditrichum strictum* (Hook.f. & Wilson) Hampe |
| 12 | *Globothecium tortifolium* Ochyra |
| 13 | *Holodontium strictum* (Hook.f. & Wilson) Ochyra |
| 14 | *Hymenoloma antarcticum* (Müll. Hal.) Ochyra |
| 15 | *Notoligotrichum trichodon* (Hook.f. & Wilson) G.L. Sm.  |
| 16 | *Polytrichadelphus magellanicus* (Hedw.) Mitt.  |
| 17 | *Racomitrium lanuginosum* (Hedw.) Brid.  |
| 18 | *Rhacocarpus purpurascens* (Brid.) Paris |
| 19 | *Sanionia uncinata* (Hedw.) Loeske  |
| 20 | *Sanionia georgicouncinata* (Müll. Hal.) Ochyra & Hedenäs |
| 21 | *Schistidium falcatum* (Hook.f. & Wilson) B. Bremer |
| 22 | *Schistidium halinae* Ochyra |
| 23 | *Schistidium* sp. Ochyra  |
| 24 | *Valdonia microcarpa* (Mitt.) Ochyra |
| 25 | *Warnstorfia fontinaliopsis* (Müll. Hal.) Ochyra |