

## Lectotypification of *Alchemilla hirsuticaulis* H.Lindb.

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Harald Lindberg described *Alchemilla hirsuticaulis* in 1904 based on material collected from two localities in Finland. The name is typified here with a specimen collected by H. Buch from South Savo, Lappeenranta in 1903. The lectotype and other original material are in the collections of the Botanical Museum at Helsinki (H).

The Finnish botanist Harald Lindberg (1871–1963; for biographic data and publications, see Väre 2010) published seven new species, one variety and one form in the genus *Alchemilla* in three papers (Lindberg 1904, 1909, 1932). Väre (2012) typified most of them, but one of the species, *A. hirsuticaulis* H.Lindb., was accidentally missing from his account. The missing typification is made here.

### *Alchemilla hirsuticaulis* H.Lindb.

Lindberg, Medd. Soc. Fauna Fl. Fenn. 30: 143. 1904. – **Lectotype** (designated here): [Finland] Sa [Savonia australis], Villmanstrand, 5.VI.1903 H. Buch. H-375813(!) [orig. herbarium Harald Lindberg]. The separate leaf attached to the sheet is excluded from the lectotype.

Lindberg (1904) published *Alchemilla hirsuticaulis* based on material collected from Finland, Villmanstrand (= Lappeenranta, in the biogeographical province of South Savo) and Kuopio (North Savo); more detailed collecting data was missing. In his later publication, Lindberg (1909) gave a list of all localities of the species known to him. Inferring from this information, the only specimens from Lappeenranta that were clearly collected before the published de-

scription were those from June 1903 by H. Buch. There are two such sheets (syntypes) at Helsinki (H): H-375813(!) (5. June) and H-375815(!) (8. June). [Buch collected two additional specimens (H-375824(!), H-375825(!)) in June 1903 from Lappvesi [= Lappee], which was the rural municipality surrounding Lappeenranta town at the time and later (1967) annexed to it. These specimens are not part of the original material.]

Lindberg (1904) wrote in the protologue: ”Exemplaren från sistnämnda ort [i.e. Kuopio] gå enl. Buser’s bearbetning i Mela’s flora under namn af *A. colorata* Bus.” In 1909 he (Lindberg 1909) wrote: ”Dezember 1898 reviderade R. Buser die von Mela gesammelten Pflanzen und indentifizierte dieselben mit *A. colorata* Bus.” Based on his wording it seems evident that the original material from Kuopio consists only of those specimens annotated by Buser in 1898. The only specimens from Kuopio collected before the species description and determined by R. Buser as *Alchemilla colorata*, were collected in June and August 1898 from Piispantori by A.J. Mela. The four herbarium sheets (syntypes) belong to two collections made on 26. June (H-373749(!)) and 16. August (H-373751(!), H-373755(!), H-373759(!)). The latter three specimens were annotated by Buser representing *status autumnalis*.



Fig. 1. Lectotype of *Alchemilla hirsuticaulis*. Coll. H. Buch from Villmanstrand [Lappeenranta], South Savo 5. June 1903, H-375813. The separate leaf on the right has been added later and is excluded from the lectotype.

The original material in its entirety seems to be in the Botanical Museum at Helsinki (H). There are probably no duplicates of any of these collections or other original material from these localities in Finnish herbaria, at least such specimens cannot be found in the Finnish Biodiversity Information Facility (<https://laji.fi/en>) or the national floristic database maintained by the Botanical Museum at H.

Lindberg published a photograph of one of the syntypes from Lappeenranta (H-375813) in his 1909 article (Lindberg 1909: Plate 1). This illustrated specimen was also chosen here as the lectotype (Fig. 1.). It is a representative and well-grown plant collected in early June showing all the diagnostic characters of the species. According to the caption (Lindberg 1909), the separate leaf on the sheet was added later and originates from a later specimen cultivated in the botanic garden at Helsinki, so this leaf is excluded from the lectotype.

## References

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