

### Appendix. Representative specimens examined.

**[China]** Prov. Hebei: Qinglong, 7 Sep. 1971, *D. D. Cheng*, 1650 (PE) / Prov. Shandong: Qufu, 19 Oct. 2003, *C. Y. Gou*, 1502023-1 (PE); yanzhou, 5 Apr. 2004, *C. Y. Gou*, 1503021-1 (PE) / Prov. Shanghai: without specific locality, Apr. 1861, *Cutt*, s.n. (P) / Prov. Guangxi: Nanning, 21–30 Feb. 1933, *W. T. Tsang*, 21800 (P); Prov. Hunan: Changsha, 14 Mar. 1918, *H. Handel-Mazzetti*, 2308 (WU). **[Japan]** Pref. Aomori: Aomori, 17 Jun. 2002, *K. Yonekura*, 8562 (PE) / Pref. Tochigi: Tochigi, 18 Jul. 1989, *M. Furuse*, 125 (PE); Tochigi, 5 Sep. 1995, *M. Furuse*, 72 (PE) / Pref. Tokyo: Hachioji, 13 Apr. 1987, *T. Kawahara & H. T. Im*, 974 (CNU) / Pref. Shiga: Yogo, 6 Apr. 1988, *H. T. Im*, 9882 (CNU) / Pref. Kochi: Shikoku, 15 Aug. 2010, *B. U. Oh et al.*, CBU-100737 (KH). **[Korea]** Prov. Gangwon-do: Chuncheon, 13 Sep. 2007, *G. E. Yoo*, s.n. (KWNNU); Wonju, 1 Jul. 2008, *B. U. Oh & Y. Y. Kim*, 080701-014 (CBU); Jeongseon, 30 Jul. 2008, *B. U. Oh & Y. Y. Kim*, 080730-001 (CBU); Hwacheon, 19 May 2009, *Y. Y. Kim & J. S. Han*, 090519-016 (CBU) / Gyeonggi-do: Mt. Gwangdeoksan, 1 Nov. 2005, *S. P. Hong et al.*, 5086 (KHUS) / Prov. Chungcheongbuk-do: Cheongju, 21 Oct. 2008, *B. U. Oh & Y. Y. Kim*, 081021-005 (CBU) / Prov. Daejeon: Yuseong, 15 Sep. 2014, *Y. Y. Kim*, 140915-001 (CBU) / Prov. Gyeongsangbuk-do: Pohang, 29 May 2011, *K. S. Jeong & Y. G. Kim*, s.n. (KNU) / Prov. Gyeongsangnam-do: Geochang, 6 Oct. 2010, *Y. Y. Kim & S. J. Ji*, 101006-015 (CBU) / Prov. Jeollabuk-do: Iksan, 19 Mar. 2009, *B. U. Oh & Y. Y. Kim*, 090319-007 (CBU) / Prov. Jeollanam-do: Yeonggwang, 4 May 2012, *B. U. Oh & Y. Y. Kim*, 120504-002 (CBU); Gurye, 12 Apr. 2009, *B. U. Oh & Y. Y. Kim*, 090412-010 (CBU); Gurye, 28 May 2011, *Y. Y. Kim & W. B. Seo*, 110528-012 (CBU) / Prov. Busan: Yongdusan, 4 Jul. 1909, *T. Nakai*, s.n. (TI) / Prov. Jeju-do: Jeju, 10 Nov. 2008, *B. U. Oh & Y. Y. Kim*, 081110-001 (CBU); Seogwipo, 6 Oct. 2008, *B. U. Oh & Y. Y. Kim*, 081006-002 (CBU); Seogwipo, 13 May 2009, *B. U. Oh & Y. Y. Kim*, 090513-001 (CBU). **[Philippines]** Prov. Benguet: Baguio, Mar. 1904, *A. D. E. Elmer*, 5846 (P). **[Taiwan]** Xinbei, Tamsuy, 1864, *R. Oldham*, 31 (P) / Central Mountain Range, 1 Jan. 1911, *T. Kawakami & S. Sasaki*, s.n. (TAIF). **[Vietnam]** Hanoi, 22 Dec. 1918, *A. Chevrier*, 39.411 (P).