

Supplementary data 1. Examined reference specimens

Magnolia pacifica: San Sebastián del Oeste (SS) locality: MEXICO, Jalisco, San Sebastián del Oeste municipality, on the road to La Bufa, 1.5 km ESE from San Sebastián del Oeste town, 20°45'21.0"N, 104°50'18.9"W, 1510 m, 05 Apr 2013 (fl, fl bud, fr), *M. Á. Muñiz-Castro, A. Nuño-Rubio, V. Shalisko & C. Jacobo-Pereira 1202* (IBUG!); Arroyo del Triángulo, San Sebastián, 1425 m, 20 Mar 1927 (fr), *Y. Mejia 1903* (Holotype MICH!, isotypes A!, CAS!, F!, GH!, MO!, NY!, UCR!, US!); 2 km SW from San Sebastián, 20 Jun 1989 (fl, fr) *Vázquez-García et al. 5014a-c* (WIS!); 1 km SW of San Sebastián, Arroyo Agua Zarca, 17 Jun 1984, Sainz-Ch. & Peña 137 (IBUG!). Bosque de Arce (BA) locality: MEXICO, Jalisco, Talpa de Allende municipality, 2.1 km SW from Los Sauces 20°14'42"N, 104°47'41"W, 1340 m, 12 Abr 2012 (fr), *M. Á. Muñiz-Castro & R. Murguía 970* (IBUG!); 120 m SSW from Peña del Cuervo, 20°13'4.1"N, 104°44'11"W, 2077 m, 16 Jun 2012 (fl), *M. Á. Muñiz-Castro & R. Murguía 1094* (IBUG!); Cañada Ojo de Agua del Cuervo (Maple Forest), 18.2 km SSE from Talpa de Allende town, 1751 m, 01 Aug 2012 (fl) *M. Á. Muñiz-Castro, J. P. Rodríguez-Glez., A. Nuño-Rubio & A. Carranza-Aranda 1106* (IBUG!); 17-19 km S from Talpa de Allende, margin W of Río de Talpa, 18-19 Oct 1960 (fr), *McVaugh 20375* (MICH!); 20-22 km S from Talpa de Allende, margin W of Río de Talpa, 28-30 Mar 1965 (fr), *McVaugh 23313* (MICH!); Cañada Ojo de Agua del Cuervo (Maple Forest), 200 m from the road, 1754 m, 24 Mar 2012 (fr), 20°12'46.5"N, 104°45'25.4"W, *M. Á. Muñiz-Castro, R. Murguía & J. P. Rodríguez-González 941* (IBUG!); path to Coamil de Méndez, tributary of Río Talpa, 2.5 km SW from Los Sauces, 1378 m, 31 Jul 2012 (fr), 20°14'19.1"N, 104°47'48.1"W, *M. Á. Muñiz-Castro, A. Nuño-Rubio, A. Carranza-Aranda & J. P. Rodríguez-González 1103* (IBUG!). Cerro San Juan (CSJ) locality: MEXICO, Nayarit, Xalisco municipality, 2.7 km SSW from La Noria, road to El Cuarenteño, 21°27'57.06"N 105° 0'20.70"W 1260 m, 10 Mar 2013 (fr), 21°27'57.6N, 105° 0'20.7"W, *M. Á. Muñiz-Castro, A. Carranza-Aranda, A. Nuño-Rubio & C. Jacobo-Pereira 1175* (IBUG!); road to El Cora, 270 m WSW from El Cuarenteño, 21°27'29.1"N, 105°2'11.6"W, 967 m, 10 mar 2013 (fl), *M. Á. Muñiz-Castro, A. Carranza-Aranda, A. Nuño-Rubio & C. Jacobo-Pereira 1179* (IBUG!).

Magnolia pugana: Arroyo San Lorenzo (ASL) locality: MEXICO, Jalisco, Zapopan municipality, margin of forest in a small tributary of San Lorenzo stream, 35 km NW from Guadalajara, 8 km NW from Tesistán, 20°50'N, 103°34'W, 1450 m, 18 Mar. 1987, *Iltis, Cházaro B. & R. López V. 29722* (Holotype: WIS!; isotypes, IBUG!, MEXU, MICH, MO, US). Rancho San Lorenzo, in slope with a spring, 15 m from the road to San Nicolás, 6.4 km WNW of Santa Lucía, 20°49'17" N, 103°33'8.4" W, 1470 m, 16 Dec 2011 (fr), *M. Á. Muñiz-Castro & G. Nieves-Hernández 912* (IBUG!). In a small tributary of Arroyo Pajaritos, by El Encanto thermal springs, 6 km W from Santa Lucía, 20°47'82" N, 103°33'11" W, 1492 m, 27 Oct 2012 (fl), *M. Á. Muñiz-Castro, A. Nuño-Rubio & A. Carranza-Aranda 1144* (IBUG!). Arroyo La Virgen (ALV) locality: MEXICO, Jalisco, Zapopan municipality, Arroyo La Virgen, 1 km SW from Rancho San Nicolás, 20°38'58" N, 103°34'47.3" W, 1428 m, 23 Sep 2016 (fl), *C. Cortés & M. Á. Muñiz-Castro 72 & 73* (IBUG!). Río Verde (RV) locality: MEXICO, Jalisco, Zapotlanejo municipality, on a slope on the southern margin of the river, beside a rocky spring, 80 m NE from Las Cruces ravine, 3-5 km SSE from Matalán, 20°44'30.4" N, 103°09'56.8" W, 1073 m, 23 Jan 2012 (fl), *M. Á. Muñiz-Castro, R. Murguía, J. Padilla-Lepe & M. Cházaro-Basañez 918* (IBUG!); Las Cruces ravine, 30 m down the stream pond and the water pump, 20°44'22.21" N, 103° 9'48.01" W, 1215 m, 23 Jan 2012 (fl), *M. Á. Muñiz-Castro, R. Murguía, J. Padilla-Lepe & M. Cházaro-Basañez 918* (IBUG!). Arroyo Palo Verde (APV) locality: MEXICO, Zacatecas, Mezquital del Oro municipality, Rancho Los Cardos, on the margin of Arroyo Palo Verde, 350 m upstream the dam, 21°16'51.2" N, 103°18'0.41" W, 1594 m, 12 Mar 2013 (fl), *M. Á. Muñiz-Castro & A. Nuño-Rubio 1180* (IBUG!); on the margin of Arroyo Palo Verde, 1 km upstream Palo Verde town, 21°15'40.36" N, 103°18'21.28" W, 1500 m, 12 Mar 2013 (fl), *M. Á. Muñiz-Castro & A. Nuño-Rubio 1181* (IBUG!).

Magnolia vallartensis: Arroyo Palo María (APM) locality: MEXICO, Jalisco: Puerto Vallarta municipality: 5.5 km SW from Puerto Vallarta, 20°32'48"N, 105°16'7.6" W, 102 m, 3 Dic 2009 (fl, fl bud), *J. A. Vázquez García 9343 w/ R. Murguía & R. Díaz Borioli* (Holotype: IBUG! Isotypes: MEXU, IEB, WIS); 60 m E from Arroyo Palo María, on the path, 225 m NE from Las Juntas del Agua Zarca y Palo María, 20°32'06" N, 105°14'72.5" W, 386 m, 26 Mar 2013 (fr), *M. Á. Muñiz-Castro, A. Nuño-Rubio, A. Carranza-Aranda & R. Díaz Borioli 1185* (IBUG!); 10 m N from Arroyo Palo María, 480 m ESE upstream from Las Juntas del Agua Zarca y Palo María, 20°31'84.5" N, 105°14'47.1" W, 402 m, 27 Mar 2013 (fr), *M. Á. Muñiz-Castro, A. Nuño-Rubio & A. Carranza-Aranda 1195* (IBUG!); in the path that goes from the Juntas del Palo María y Agua Zarca to the scenic viewpoint of the Mismaloya waterfalls, at the junction with the Agua Zarca ("Chupalodo") stream, 570 m before arriving, 20°30'57.25" N, 105°14'44.86" W, 636 m, 05 Jul 2013 (fl), *M. Á. Muñiz-Castro, M. Cházaro-Basañez & J. Padilla-Lepe 1257* (IBUG!). Provincia (PV) locality: MEXICO, Jalisco, Cabo Corrientes municipality, left side of the road Provincia to Zimapán, 900 m, 12 Mar 2011, *J.A. Vázquez-García et al. 9084* (IBUG!); road Provincia to Zimapán, 980 m, 27 Jun 2012, *J.A. Vázquez-García et al. 9360* (IBUG!, MEXU, IPN); on the road to Provincia, km 3.4 from the highway Puerto Vallarta-El Tuito, 20°20'59.6" N, 105°15'40.4" W, 911 m, 23 Mar 2014 (fl), *M. Á. Muñiz-Castro & A. Puente-Casillas 1314* (IBUG!). Las Lajitas (LL) locality: MEXICO, Jalisco, Cabo Corrientes municipality, on Arroyo Las Lajitas ravine (southern slope), 400 m NE from Rancho Los Alacranes, 20°20'59.6" N, 105°15'40.4" W, 676 m, 27 Jun 2014 (fl), *M. Á. Muñiz-Castro, A. Nuño-Rubio, A. Carranza-Aranda, G. Hernández-Vera & M. Vázquez-Bolaños 1350* (IBUG!); on Arroyo Las Lajitas ravine (southern slope), 440 m NE from Rancho Los Alacranes, 20°28'25" N, 105°15'39.8" W, 711 m, 27 Jun 2014 (fl), *M. Á. Muñiz-Castro, A. Nuño-Rubio, A. Carranza-Aranda, G. Hernández-Vera & M. Vázquez-Bolaños 1356* (IBUG!).