

Quillajaceae D. Don

Federico Luebert

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This treatment is composed of the following taxa: Quillajaceae, *Quillaja*.

HOW TO CITE

Luebert, F. 2020. Quillajaceae in **Flora do Brasil 2020**. Jardim Botânico do Rio de Janeiro. Available at: <http://floradobrasil.jbrj.gov.br/reflora/floradobrasil/FB203>.

DESCRIPTION

Evergreen trees. Leaves alternate, simple, penninerved, coriaceous, dentate, petioled; stipules small, caducous. Inflorescences terminal and axillary, pauciflorous, corymbose, terminal flower bisexual, lateral flowers staminate. Flowers pentamerous, tomentose; calyx valvate; corolla white or cream; petals spatulate to oblong-spathulate; disk thick, fleshy, with 5 lobes adnate with the sepals; stamens 10, 5 antepetalous inserted near the apex of the disk-lobes and 5 antepetalous near the ovary base; filaments subulate; anthers bithecate, introrse; carpels 5, fused at the base; stylodia terminal, with decurrent stigmas; ovules numerous. Follicles spreading star-like, dehiscent ventrally and dorsally with 2 coriaceous valves. Seeds many, with a long apical wing.

Life Form

Tree

Substrate

Terrestrial

DISTRIBUTION

Native, Not endemic to Brazil

Phytogeographic Domains

Atlantic Rainforest

Vegetation Types

Mixed Ombrophyllous Forest

Geographic Distribution

Confirmed occurrences

Southeast (São Paulo)

South (Paraná, Rio Grande do Sul, Santa Catarina)

REFERENCE

Kubitzki, K. Quillajaceae. In Kubitzki, K. (Ed.), *The Families and Genera of Vascular Plants* (Vol. 9, pp. 407–408). Berlin, Heidelberg: Springer, 2007

Luebert, F. Taxonomy and distribution of the genus *Quillaja* Molina (Quillajaceae). *Feddes Repertorium* v.124, p.157–162. 2014. (DOI: 10.1002/fedr.201400029)

Souza, Vinícius Castro. *Botânica Sistemática: guia ilustrado para identificação das famílias de Fanerógamas nativas e exóticas no Brasil, baseado em APG II* / Vinícius Castro Souza, Harri Lorenzi. 2. ed. Nova Odessa, SP : Instituto Plantarum, 2008.

Quillaja Molina

This treatment is composed of the following taxa: *Quillaja*, *Quillaja lancifolia*.

HOW TO CITE

Luebert, F. Quillajaceae in **Flora do Brasil 2020**. Jardim Botânico do Rio de Janeiro. Available at: <http://floradobrasil.jbrj.gov.br/reflora/floradobrasil/FB108399>.

Has as synonym

homotypic *Cullay* Molina ex Steud.

heterotypic *Fontenellea* A. St.-Hil. & Tul.

heterotypic *Smegmadermos* Ruiz et Pav.

heterotypic *Smegmaria* Willd.

DESCRIPTION

Evergreen trees. Leaves alternate, simple, penninerved, coriaceous, dentate, petioled; stipules small, caducous. Inflorescences terminal and axillary, pauciflorous, corymbose, terminal flower bisexual, lateral flowers staminate. Flowers pentamerous, tomentose; calyx valvate; corolla white or cream; petals spatulate to oblong-spathulate; disk thick, fleshy, with 5 lobes adnate with the sepals; stamens 10, 5 antesealous inserted near the apex of the disk-lobes and 5 antepetalous near the ovary base; filaments subulate; anthers bithecate, introrse; carpels 5, fused at the base; stylodia terminal, with decurrent stigmas; ovules numerous. Follicles spreading star-like, dehiscent ventrally and dorsally with 2 coriaceous valves. Seeds many, with a long apical wing.

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South (Paraná, Rio Grande do Sul, Santa Catarina)

REFERENCE

Kubitzki, K. Quillajaceae. In K. Kubitzki [ed.], *The Families and Genera of Vascular Plants*, 407–408. Springer, Berlin, Heidelberg, 2007.

Luebert, F. Taxonomy and distribution of the genus *Quillaja* Molina (Quillajaceae). *Feddes Repertorium* v.124, p.157–162. 2014. (DOI: 10.1002/fedr.201400029)

Quillaja lancifolia D. Don

Has as synonym

homotype *Quillaja lanceolata* D. Dietr.

homotype *Quillaja sellowiana* Walp.

heterotypic *Fontenellea brasiliensis* A. St.-Hil. & Tul.

heterotypic *Quillaja brasiliensis* (A. St.-Hil. & Tul.) Mart.

DESCRIPTION

Evergreen tree 7-15 m tall, stem 30-40 cm diam., branches glabrous, frondose. Leaves alternate, vernicose, coriaceous, elliptic, lanceolate or oblong-lanceolate, apex acute, subacute or obtuse, sometimes mucronate, base cuneate, margin entire or slightly dentate, with the nerves marked on the adaxial surface; lamina 3-10 mm long, 1-1.5 cm wide, pentanervate, glabrous on both sides, adaxial side dark-green, abaxial surface yellowish-green; petiole ca. 1-3 mm long, glabrous. Inflorescence axillary, corimbose, pauciflorous, tomentose. Buds globose, tomentose, 2 mm long, 2 mm wide. Flowers ca. 12 cm diam., pedicellate, pedicel 5 mm long, bract and bracteole scamiform, persistent, tomentose. Calyx tomentose on the external side, lobes coriaceous, ovate to lanceolate-triangular, apex subacute, thickened towards the margins, tomentose on both sides, 6 mm long, 4 mm wide. Corolla white, with pentamerous; petals oblong-spathulate, equalling or surpassing the calyx. Disk conspicuous, from the base of the ovary to the median portion of the calyx, with 5 fleshy lobes. Androceous with 10 stamens; filaments subulate,

3 mm long; anthers elliptic, 1.8 mm long. Ovary pentacarpellate, carpels connate, tomentose; stylodia 5, free, subterminal, subulate, tomentose, persistent; stigma capitate. Fruit 4-10 mm long, 3-5 mm wide, tomentose, coriaceous, many-seeded, with 5 bivalvate, oblong folicules fused at the base and radially arranged, star-like. Seeds light brown, 5-10 mm long, 2-7 mm wide, ovate-spathulate, membranaceous, wing apical.

Life Form

Tree

Substrate

Terrestrial

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Phytogeographic Domains

Atlantic Rainforest

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Confirmed occurrences

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South (Paraná, Rio Grande do Sul, Santa Catarina)

HERBARIUM MATERIAL

F. Sellow, s.n., K,  (K000424774)

F. Sellow, s.n., P (P02416120), **Typus**





















F. Sellow, s.n., G (G00386709), **Typus**

F. Sellow, s.n., W (W0071900)

F. Sellow, s.n., W,  (W18890167606)

F. Sellow, s.n., W (W0071899)

F. Sellow, s.n., W (W0071898)

G. Hatschbach, 31034, MBM (MBM034284), Paraná
 F. Sellow, s.n., K (K000424774), **Typus**
 F. Sellow, s.n., P (P02416115), **Typus**
 F. Sellow, s.n., P (P02416116), **Typus**
 F. Sellow, s.n., P (P02416117), **Typus**
 F. Sellow, s.n., P (P02416119), **Typus**
 F. Sellow, s.n., B (B100347147), **Typus**
 F. Sellow, s.n., K (K000424775), **Typus**
 Alberti, L. F., 0, HDCF (HDCF004250), Rio Grande do Sul
 Marchiori, J N C, 0, HDCF (HDCF0084), Rio Grande do Sul
 A. Kassner-Filho, 2567, RB,  (RB01395970), Santa Catarina
 Dra M. da Rocha, s.n., RB, 41454,  (RB00334388), Rio Grande do Sul
 B. Rambo, 599, NY,  (NY00656659), Rio Grande do Sul
 J.M. Silva, 5470, RB,  (RB00927267), Paraná
 Tressens, SG, 3007, SPF,  (SPF00048395)
 Barboza, E, 4118, MBM (MBM393569), Santa Catarina
 Pacheco, F.R.V., s.n., FURB (FURB40365), Santa Catarina
 Denardi, L., 0, HDCF (HDCF006771), Rio Grande do Sul
 Zambon, A., 0, HDCF (HDCF007053), Rio Grande do Sul
 Funez, L.A., 8721, FURB (FURB64362), Santa Catarina
 F. Sellow, 2095, US,  (US01351254)
 Kassner-Filho, A., 2567, FURB (FURB58458), Santa Catarina
 A.R. Reitz, 11976, US,  (US01351251), Santa Catarina
 L. R. Landrum, 2669, NY,  (NY00656665), Santa Catarina
 L.B. Smith, 11294, NY,  (NY00656660), Santa Catarina
 L.B. Smith, 12230, NY,  (NY00656661), Santa Catarina
 Glocimar Pereira-Silva, 10089, CEN (CEN00067152), Rio Grande do Sul
 Silva Filho, F.A., 414, FURB (FURB40361), Rio Grande do Sul
 A.F.M. Glaziou, 14198, P (P02416159), São Paulo
 Kassner-Filho, A., 4250, FURB (FURB64564), Santa Catarina
 Kassner-Filho, A., 4400, FURB (FURB62112), Santa Catarina
 Kassner-Filho, A., 4805, FURB (FURB63924), Santa Catarina
 Kassner-Filho, A., 4753, FURB (FURB62657), Santa Catarina
 Longhi, S. J., 0, HDCF (HDCF00848), Rio Grande do Sul
 Longhi, S. J., 123, HDCF (HDCF00555), Rio Grande do Sul
 Longhi, S. J., 0, HDCF (HDCF00990), Rio Grande do Sul
 Longhi, S. J., 225, HDCF (HDCF00954), Rio Grande do Sul
 Longhi, S. J., 323, HDCF (HDCF001087), Rio Grande do Sul
 Loureiro, M. F., 0, HDCF (HDCF005148), Rio Grande do Sul
 Marchiori, J N C, 0, HDCF (HDCF00222), Rio Grande do Sul
 M. Verdi, 1463, RB,   (RB00926888), Santa Catarina
 s.c., 45835, K,  (K001031947), Rio Grande do Sul
 Rambe, B. (= Balduino Rambo S.J.), 50253, US,  (US01351248), Rio Grande do Sul
 A. Jasper, 8090, NY,  (NY00656663), Rio Grande do Sul
 Marchiori, J N C, 0, HDCF (HDCF00604), Rio Grande do Sul
 Marchiori, J N C, 0, HDCF (HDCF00678), Rio Grande do Sul
 Oliveira, A.A. de, 993, FURB (FURB40357), Santa Catarina
 R. Tsuji et al., 2830, LUSC (LUSC001378), Santa Catarina
 R. A. Wasum, s.n., NY,  (NY00656664), Rio Grande do Sul
 Larsen, J.G., s.n., LUSC (LUSC001376), Santa Catarina
 s.c., 19140, K,  (K001031954), São Paulo
 s.c., 20501, K,  (K001031949)
 C. Gaudichaud, 7, P (P02416153), Rio Grande do Sul
 C. Gaudichaud, 20, P (P02416154), São Paulo
 C. Gaudichaud, 4, P (P02416146), Rio Grande do Sul
 C. Gaudichaud, 4, P (P02416146), Rio Grande do Sul
 Godoy, M.B., s.n., FURB (FURB40362), Santa Catarina
 Jasper, A., s.n., US,  (US01351244), Rio Grande do Sul
 L. Seger, 2603, US,  (US01351243), Rio Grande do Sul

Rambo, B. (Rambo, Balduino/ Rambo S. J., Balduino), 599, US,  (US01351253), Rio Grande do Sul
 B. Rambo, I/3831, P (P04352019), Rio Grande do Sul
 s.c., s.n., K,  (K001031952)
 s.c., s.n., K,  (K001031953), **Typus**
 s.c., s.n., K,  (K001031951), **Typus**
 E. Ule, 1887, P (P02416155), Santa Catarina
 Wasum, R. (Wasum, Ronaldo), 12249, US,  (US01351245), Rio Grande do Sul
 Falkenberg, DB, 6436, MBM (MBM203142), Rio Grande do Sul
 Landrum, LR, 2669, MBM (MBM061456), Santa Catarina
 Carvalho, P, s.n., MBM (MBM034293), Paraná
 Rotta, E, s.n., MBM (MBM065740), Paraná
 A.C. Brade, 19571, NY,  (NY00656666), Paraná
 G. Hatschbach, 26493, NY,  (NY00656662), Paraná
 G. Hatschbach, 1382, NY,  (NY00656667), Paraná
 G. Hatschbach, 26493, SPF,  (SPF00030305), Paraná
 G. Hatschbach, 55699, MBM (MBM146804), Santa Catarina
 G. Hatschbach, 26493, MBM (MBM016955), Paraná
 J.R. Stehmann, 1343, SPF,  (SPF00125189), Rio Grande do Sul
 M. Sobral, s.n., FURB (FURB40363), Rio Grande do Sul
 J.A. Jarenkow, 2561, MBM (MBM178267), Rio Grande do Sul
 J.A. Jarenkow, 3828, MBM (MBM227049), Rio Grande do Sul
 J.A. Jarenkow, s.n., CRI (CRI009286)
 M. Verdi, 198, FURB (FURB03255), Santa Catarina
 M. Verdi, 6039, FLOR (FLOR0060768), Rio Grande do Sul
 M. Verdi, 3830, FLOR (FLOR0060767), Santa Catarina
 M. Verdi, 6204, FURB (FURB40359), Rio Grande do Sul
 Capanema, s.n., RB, 868,  (RB00327923), Paraná
 Sohn, S, 18, MBM (MBM120143), Santa Catarina
 A.C. Brade, 19571, RB, 65653,   (RB00327912), Paraná
 Longhi, S. J., 502, HDCF (HDCF001691), Rio Grande do Sul
 Mattos, JR, 8408, MBM (MBM246382), Santa Catarina
 Rambo, B, 46517, MBM (MBM048713), Rio Grande do Sul
 Wasum, R, 12580, MBM (MBM237012), Rio Grande do Sul
 Crippa, L, 84, MBM (MBM348605), Rio Grande do Sul
 Tressens, SG, 5659, MBM (MBM201851)
 Bernardi, L, 20501, MBM (MBM099578)
 Cabrera, AL, 32360, MBM (MBM070380)
 A. Kegler, 85, MBM (MBM236474), Rio Grande do Sul
 L.B. Smith, 11294, RB, 101374,  (RB00327919), Santa Catarina
 G. Hatschbach, 1282, MBM (MBM048712), Paraná
 M. Sobral, s.n., MBM (MBM073958), Rio Grande do Sul
 R.M. Klein, 12204A, MBM (MBM116466), Rio Grande do Sul
 F. Sellow, s.n., K,  (K000424775)
 L.B. Smith, 12230, US,  (US01351250), Santa Catarina
 C.F.P. Martius, s.n., K (K000424776)
 J.G. Kuhlmann, s.n., RB, 64864,   (RB00327914)
 Wasum, R. (Wasum, Ronaldo), 1714, US,  (US01351246), Rio Grande do Sul
 Marchiori, J N C, 214, HDCF (HDCF002166), Rio Grande do Sul
 s.c., s.n., B (B 10 0347147)
 M. Sobral, 9173, MBM (MBM265232), Rio Grande do Sul
 Rambo, 45835, W,  (W19570011155)
 REFLOA provisional entry, s.n., W (W0071901)
 Rambo, 39151, W,  (W19570010967)
 Rambo, 46517, W,  (W19570010155)
 R. Mello-Silva, 3785, SPF,  (SPF00217585), Santa Catarina
 R. Mello-Silva, 3770, SPF,  (SPF00217570), Santa Catarina
 R. Mello-Silva, 3759, SPF,  (SPF00217559), Santa Catarina
 R. Mello-Silva, 3788, SPF,  (SPF00217592), Santa Catarina
 M. Sobral, 3802, MBM (MBM104599), Rio Grande do Sul

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