



Medicinal plants and other botanical products from the Brazilian Official Pharmacopoeia

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RESUMO: “Plantas medicinais e outros produtos vegetais da Farmacopéia Brasileira”. Este artigo descreve os resultados de uma extensa revisão efetuada nas quatro edições da Farmacopéia Brasileira, buscando dados sobre as plantas medicinais e outros produtos vegetais nela descritos. O crescimento da indústria farmacêutica internacional a partir da segunda metade do século passado afetou intensamente a medicina oficial no Brasil. O texto faz uma breve análise das transformações sofridas pela Farmacopéia, tomando como base a existência de Monografias para as espécies vegetais nativas. Os resultados do estudo demonstram uma intensa substituição das plantas nativas do Brasil por medicamentos industrializados e outros produtos vegetais estrangeiros, confirmando assim a necessidade de investimentos em pesquisa de validação das nossas plantas medicinais.

Unitermos: Farmacopéia Brasileira, plantas medicinais, Brasil.

ABSTRACT: In this paper, we describe the results of a thorough survey in the four editions of the Brazilian Official Pharmacopoeia (FBRAS), in a search for data about the plants and other botanical products included in them. The growth of the pharmaceutical industry since the second half of last century markedly affected the Brazilian official medicine. The paper analyses the transformation within the Pharmacopoeia, focusing on the presence of Monographs for Native medicinal plants. The result showed a strong substitution of Native American medicinal plants by industrialized medicine and foreign medicinal plants in FBRAS and confirms the necessity of investments in research for the validation of Brazilian Native plants.

Keywords: Official Pharmacopoeia, medicinal plants, Brazil.

INTRODUCTION

In 2001, the Council of Genetic Heritage of Brazil's Ministry of the Environment and Renewable Natural Resources (Conselho de Patrimônio Genético do Ministério do Meio Ambiente e Recursos Naturais Renováveis - CGEN/MMA) instituted a decree (2.186-16/2001) establishing a series of regulatory norms for the collection and bioprospection of medicinal plants in the country. Such a decree responded to a recommendation by the Biological Diversity Convention (Convenção da Diversidade Biológica - CDB) and it was considered necessary in the face of the growing interest on products related to the Brazilian biodiversity and of the need to share with traditional populations the profits derived from their commercial exploitation.

In April 2006, our research group (GEPLAMT-UFMG) wrote a report for the Public Attorney (Ministério Público) of the state of Minas Gerais about the current situation of the native plants that are commonly used in

this state's traditional medicine, in an attempt to verify if they require some kind of legal protection (see www.mp.mg.gov.br). More recently, the Federal Government made public, through the Ministry of Development, Industry and Foreign Commerce, a list of three thousand plants and botanical products for legal protection against foreign patents. All these measures aim to establish forms of protective actions for the country's biodiversity and traditional medicine, which is still quite unknown.

In this study, we present a list of the medicinal plants and other botanical products described in the four Editions of the Brazilian Official Pharmacopoeia (FBRAS) (Pharmacopoeia dos Estados Unidos do Brasil, 1926; Farmacopeia Brasileira, 1959; Farmacopeia Brasileira, 1977; Farmacopeia Brasileira, 1988-1996). The objectives of this study are to contribute for the protection of the native species included in the FBRAS, and to guide Brazilian researches in performing validation studies for them.

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METHODS

The Brazilian Official Pharmacopoeia (FBRAS) has three older Editions published in 1926, 1959, 1977 and the newest Edition published since 1988. Each edition of FBRAS was carefully revised by us in order to obtain data about the described medicinal plants and other botanical products. Each pharmaceutical product is described in the Pharmacopoeias in the form of Monographs. For herbal products, the Monographs include data about botanical, physical-chemical and chemical analysis. From the Monographs, we extracted data about popular and scientific names of each species, their botanical Families, the part of the plant used, and the type of medicine described for each one in the four different Editions: vegetal drug (vd), tincture (tn), fluid extracts (fe), oils, essential oils (es), dry extracts (ex) and other forms. All the results were organized in Table 1.

The names of each species and their Botanical Families were updated with data researched in the site of the Missouri Botanical Garden (www.mobot.org). For those species whose names were not found in that site, we maintained the name as described in the FBRAS. References about the geographic origin were obtained from classical literature in the Pharmacognosy area such as Gilg et al. (1942), Youngken (1943), Golse (1955), Casamada (1977), Costa (1996) as well as in historic bibliography that described the use of medicinal plants in Minas Gerais in the nineteenth century (Burton, 1977; Dean, 1996; Figueiredo, 2002; Godoy, 1996; Mawe, 1978; Pohl, 1976; Saint-Hilaire, 1974; Silva, 1997; Spix, 1981). Native species from Brazil are indicated in Table 1 with an '*’.

RESULTS AND DISCUSSION

In this study, we have performed an extensive revision within the FBRAS editions to verify all the medicinal plants and botanical products there described, looking at a total of 985 Monographs. The Monographs are for 321 different species, distributed in 98 Botanical Families. Table 1 shows the described plant and products, their respective popular and scientific names, Botanical Families, the part(s) used for pharmaceutical forms in each Edition of FBRAS. Several plants are intensively used for preparation of medicine as *Digitalis* and *Cinchona* species but others, such as *Erythroxylum coca*, *Cannabis sativa* or *Colchicum autumnale*, do not have any significant importance as sources of medicines.

The First Edition of FBRAS, published in 1926, includes 1702 Monographs for medicinal products. Among those, 713 Monographs (42%) refer to medicinal plants (228 for vegetal drugs and 83 for powdered drug) and products obtained from extraction: 167 Monographs for fluid-extracts (fe), 108 Monographs for tinctures (tn), 59 Monographs for dry extracts (ex), 40 for essential oils, 10 for oils and 18 for other products. That edition

was published at a time when medicine preparation was predominately based on natural products and plants were still the main source of materials for those products. The Second Edition was published in 1956 and includes 814 Monographs. From those, 193 (23,7%) refer to medicinal plants and other botanical products. That edition came out soon after the Second World War, a period in which several synthetic medicines were developed. At that time, an accelerated expansion of pharmaceutical production also began in Brazil with the establishment of multinational pharmaceutical companies in the country. In 1977 the Brazilian Government published the Third Edition of FBRAS including 471 Monographs for medicinal products, but the number of Monographs for medicinal plants and botanical products was strongly reduced to only 23 (4,8%). That edition does not have any Monographs for fluid-extracts, tinctures and other products from extraction of vegetal drugs. The period was characterized by a strong wave of industrialization in Brazil and by the consolidation of foreign pharmaceutical companies within the country. The Fourth and last Edition includes, until today, only 44 Monographs for medicinal plants and botanical products. Our results show how plants have been highly substituted by synthetic medicines in the Brazilian official medicine throughout the years.

Table 2 shows the evolution of the number of Monographs for native Brazilian plants in FBRAS. Among those 713 Monographs in the 1st edition, 196 (27,5%) refer to medicinal plants or botanical products native from Brasil. It can be shown that those species were included in the Pharmacopoeia due their successful use by physicians and pharmacists at that time. The 2nd edition included 205 Monographs for medicinal plants and products, 32 (15,6%) of them referring to Brazilian Native plants and products. Among the 23 Monographs for vegetal products included in the 3rd edition, only 4 (17,4%) refer to Brazilian Native plants, while all the other Monographs refer to exotic or imported species. In FBRAS's 4th edition, the first Monographs for vegetal drugs were only published in 1996 and today it includes 44 Monographs, 11 (25%) of which referring to Native Brazilian medicinal plants and products.

CONCLUSION

Our survey showed a strong substitution of medicinal plants and other native products of Brazil by synthetic products and foreign plants within FBRAS in the last decades. It shows how biodiversity and native plants and products are being progressively excluded from Brazil's official medicine throughout the years. The Fourth Edition includes a larger number of Monographs referring to native plants and products, but they are still of little significance in the face of the vast available and acknowledged biodiversity and the extremely rich and still unknown traditional medicine. Special efforts are urgently necessary to validate and protect these plants.

Table 1. Medicinal plants from Brazilian Official Pharmacopoeia, their respective families, scientific and popular names, part used and product described in each edition.

FAMILY	SCIENTIFIC NAME	POPULAR NAME	PART	1 st	2 nd	3 rd	4 th	
ALISMATACEAE	<i>Echinodorus macrophyllus</i> (Kunth) Michel*	Chapéu de Couro / Chá mineiro	Lvs	Fe	vd			
ANACARDIACEAE	<i>Anacardium occidentale</i> L.* <i>Schinus terebinthifolius</i> Raddi*	Cajuero Aroeira / Aguará-yba / Comeiba / Aroeira vermelha	Wod Rind	vd, fe, tn vd, fe, tn				
APIACEAE	<i>Anethum graveolens</i> L. <i>Apium graveolens</i> L. <i>Archangelica officinalis</i> Hoffm. <i>Carum carvi</i> L. <i>Conium maculatum</i> L. <i>Coriandrum sativum</i> L. <i>Dorema ammoniacum</i> D. Don <i>Ferula assa-foetida</i> L. / F. narthex Boiss. <i>Ferula galbaniflora</i> Boiss. & Buhse <i>Foeniculum vulgare</i> Mill. <i>Centella asiatica</i> (L.) Urb. / <i>Hydrocotyle umbellata</i> L. <i>Petroselinum sativum</i> Hoffm. <i>Pimpinella anisum</i> L. <i>Geissospermum laeve</i> (Vell.) Miers*	Endro Aipo Angélica Alearvia Cicuta / Cegude / Ansarinha malhada / Cicuta maior / Cicuta terrestre Coentro Goma amoniaca Assa fétida Galbano Funcho Acaricoba / Herva capião / Centela Salsa hortense / Salsa comum / Salsa vulgar Aniz / Aniz verde / Erva doce	Fru Rts Rts Fru Fru Fru Gum Lix Gum, resin Fru Lvs Fru Fru Rnd	vd vd vd Es vd, fe, pw vd, es, pw vd vd Em, pil, tn es, vd tn, vd, es, pw Es tn, vd, fe vd vd, es, pw vd, pw, es vd, fe, tn				
APOCYNACEAE	<i>Aspidosperma pyrifolium</i> Mart. / <i>Macaglia peroba</i> (Freire Allemão) Lyons* <i>Plumeria lanceifolia</i> Müll. Arg.* <i>Rauwolfia serpentina</i> L. <i>Strophantus gratus</i> (Wail. & Hook.) Franchet <i>Ilex paraguayensis</i> A. Saint-Hil.*	Peroba / Peroba rosa / Peroba reversa / Quina de campos / Sobro Agoniada / Sucuba / Arapuê Rauwolfia Estrofantio Mate / Erva mate / Caa-mirim / Congonha / Chá dos jesuítas	Rnd Rnd Rts Sed Lvs	vd, fe vd, ex, fe, pw vd tn, vd, pw vd, pw				
ARACEAE	<i>Acorus calamus</i> L.	Cálamo aromático	Rts	vd, pw, tn				
ARECACEAE	<i>Coccoloba nicotiana</i> L. / <i>C. butyracea</i> L. <i>Copernicia cerifera</i> (Aruda) Mart* <i>Aristolochia cymbifera</i> Mart. & Zucc.*	Coco Carnaubeira / Carnaúba / Carandá Cassau / Jarrinha / Cipó mil homens / Papo de peru / Papo de galo / Cipó mata-cobras / Angélico / Cassatiú	Fru Rts, wax Rts	Oil vd, ex, fe tn, vd, ex, fe, pw				
ARISTOLOCHIACEAE	<i>Aristolochia serpentaria</i> L. / <i>A. reticulata</i> Nutt.	Serpentária / Serpentária da Virgínia / Viperina do Texas	Rts	tn, fe, pw, vd				
ASCLEPIADACEAE	<i>Marsdenia cundurango</i> Rehb. F.	Condurango	Wod	tn, vd, fe, pw				
ASTERACEAE	<i>Achyrocline satureioides</i> (Lam.) DC.* <i>Anacyclus pyrethrum</i> (L.) Cass.	Macela / Macela do campo Pyrethro / Pyrethro da África / Salivaria / Parietaria de Espanha	Flo Rts	vd vd, tn				

	<i>Anthemis nobilis</i> L.	Camomila Romana / Camomila nobre / Camomila verdadeira	Flo	tn, vd, es, ex, fe
	<i>Arctium lappa</i> L.	Bardana / Erva dos tinhosos / Pegamaço	Ris	vd, ex, fe, pw
	<i>Arnica montana</i> L.	Arnica	Ris, flo	fe, tn
	<i>Artemisia cina</i> Berg ex Pojarkov	Semem-contra / Santonica / Barbotina / Semente de Alexandria / Semencina	Flo	vd, pw
	<i>Artemisia absinthium</i> L.	Losna / Absintio / Grande absintio / Losna maior / Acintro / Absintio	Lvs, flo	vd, ex, fe, tn
	<i>Artemisia vulgaris</i> L.	Artemísia / Artemísica comum / Artemíja / Flor de S. João	Lvs, flo	vd
	<i>Baccharis trimera</i> (Less.) DC*	Carqueja amarga	Wpl/ stm	tn, vd, fe
	<i>Chicorium intybus</i> L.	Chicória / Chicória selvagem / Almeirão	lvs, rts	vd, ex, fe
	<i>Cynara scolymus</i> L.	Alcachofra	Lvs	vd, fe
	<i>Eupatorium ayapana</i> Vant.	Ayapana	Lvs	vd, fe, tn
	<i>Grindelia camporum</i> Greene / <i>G. cuneifolia</i> Nutt. / <i>G. squarrosa</i> (Pursh) Dunal	Grindelia / Malmequer do campo	Lvs, flo	fe, vd, tn
	<i>Matricaria recutita</i> L.	Camomila vulgar / Camomila dos alemães / Matricaria	Flo	tn, vd, es, ex
	<i>Mikania glomerata</i> Spreng*	Guaco / Guaco liso / Guaco de cheiro / Cipó caatinga	Lvs	tn, vd, fe
	<i>Mikania hirsutissima</i> DC.*	Cipó cabeludo	Lvs, flo	fe
	<i>Senecio brasiliensis</i> (Spreng.) Less*	Tasnerinha / Cravo do campo / Catião / Maria mole	Wpl	vd, fe
	<i>Solidago microglossa</i> DC*	Arnica silvestre / Erva lanceta	Lvs, flo	vd, fe, tn
	<i>Spilanthes acneta</i> (L.) Murray*	Agrião do Pará / Jambu / Nhambu / Jambu-açu / Jambu-rana	Lvs, flo	vd, tn
	<i>Stevia rebaudiana</i> (Bertoni) Bertoni	Estévia	Lvs	vd
	<i>Taraxacum taraxacum</i> var. <i>scopulorum</i> (A. Gray) A. Heller	Taraxaco / Dente de leão	Ris	vd
BERBERIDACEAE	<i>Podophyllum peltatum</i> L.	Podófilo	Ris	fe, pw, vd
BIGNONIACEAE	<i>Anemopaegma mirandum</i> (Cham.) Mart. ex DC*	Catuaba / Catuiba	Riz	tn, vd, ex, fe
	<i>Jacaraná caroba</i> (Vell.) A. DC.*	Caroba / Carobinha / Cambota pequena / Caroba do campo ou roxa	Lvs	vd, ex, fe, pw
	<i>Tymianthus fasciculatus</i> Miers / <i>T. elegantus</i> Miers*	Cipó cravo / Cipó trindade	Stm	fe, tn
BOMBACACEAE	<i>Chorisia speciosa</i> A. Saint- Hil.*	Paineira	Flo	vd
BRASSICACEAE	<i>Cochlearia officinalis</i> L.	Coclearia	Wpl, fru	vd
	<i>Brassica nigra</i> (L.) W.D.J. Koch	Mostarda preta	Sed	es, vd, pw
	<i>Roripa arnoracia</i> (L.) Hitch.	Rábano Rústico / Rabão rústico / Rabano bastardo	Ris	vd, fe
	<i>Roripa nasturtium</i> (L.) Rusby	/ Saramago maior		
	<i>Commiphora molmol</i> (Nees) Baillon	Agrião	Wpl	vd
BURSERACEAE		Mirra	Oil, resin	tn, es, vd

	<i>Protium heptaphyllum</i> (Aubl.) Marchand/ <i>P. icariba</i> (DC.) Marchand *	Elemi / Almecega / Elemi do Brasil / Goma limão	Oil, resin	Es	res
CAMPANULACEAE	<i>Lobelia inflata</i> L.	Lobélia / Tabaco indiano	Lvs, flo	fe, pw, tn	vd, pw, tn vd
CANNABACEAE	<i>Cannabis sativa</i> L.	Cânhamo da Índia / Maconha / Maconha / Diamba / Liamba	Flo	tn, vd, ex, fe, pw	vd, ex, fe, pw
CAPRIFOLIACEAE	<i>Humulus lupulus</i> L.	Lupulino	Flo	fe, vd	
	<i>Sambucus australis</i> Cham. & Schlecht.*	Sabugueiro	Flo	vd	
	<i>Viburnum prunifolium</i> L. / <i>V. lentago</i> L.	Viburno / Espinheiro preto	Wood	vd, ex, fe, pw	fe, vd
CARICACEAE	<i>Carica papaya</i> L.*	Mamoeira / Chamburu	Flo, fru	vd, fe, lx	
CECROPIACEAE	<i>Cecropia hololeuca</i> Miq.*	Imbaúba / Imbaúba branca / Imbaúba / Ambaúba / Ambaúba / Arvore da preguença	shoot	vd, fe	
CELASTRACEAE	<i>Evonymus atropurpureus</i> Jacquin	Evônimo	Wood/ rts	vd, ex, fe, pw	
	<i>Maytenus ilicifolia</i> (Schrad.) Planch.*	Espinheira Santa	Lvs		Vd
CHENOPODIACEAE	<i>Chenopodium ambrosioides</i> L.	Erva de Santa Maria / Mentruz / Anserina / vermi-fuga / Ambrosia / Erva de formigueira / Uzaidella / Chá de México	Wpl, lvs	es, vd	Es
CLUSIACEAE	<i>Garcinia hanburyi</i> Hooker	Goma-guta / Cambogia	Gum	vd	
	<i>Hypericum laxiusculum</i> A. Saint-Hil.*	Alectim bravo / Erva-santa	Flo	Vd, fe	
COMMELINACEAE	<i>Tradescantia diuretica</i> Mart.	Trapoeraba	Wpl	vd, fe	
CONVOLVULACEAE	<i>Convolvulus scammonia</i> L.	Escamônea	Rts	tn, vd, pw	
	<i>Cuscuta umbellata</i> Kunth*	Cipó-chumbo	Wpl	vd, fe	
	<i>Exogonium purga</i> (Wender.) Benth.	Jalapa	Rts	tn, vd, pw	
	<i>Operculina macrocarpa</i> (Linn) Urb.*	Jalapa do Brasil / Batata de purga / Jalapão	Rts	vd, fe	vd, pw, res tn
CUCURBITACEAE	<i>Apodanthera smilacifolia</i> Cogn.*	Cipó-azougue	Rts	vd, fe, pw	
	<i>Cayaponia espelina</i> (Silva Manso) Cogn.*	Espelina / Tomba / Purga de carijó	Rts	vd, fe	
	<i>Cayaponia tayuya</i> (Vell.) Cogn.*	Taiuiá / Tayuyú / Abobrinha do mato / Tayuyá do fruto encarnado	Rts	fe, vd, tn	
	<i>Citrullus colocynthis</i> (L.) Schrad.	Colocintide	fru, sed	tn, ex, pw	
	<i>Cucurbita pepo</i> L. / <i>C. maxima</i> Duchesne	Abóbora / Jerimum / Jerimu	Fresh sed	vd	vd
	<i>Fevillea trilobata</i> L.*	Nhandiroba / Fava de Santo Inácio do Brasil / Cipó de jaboti / Guapeva	Sed	vd, tn	
CUPRESSACEAE	<i>Juniperus communis</i> L.	Zimbro / Junipero	Fru	vd, fe, es	
	<i>Juniperus oxycedrus</i> L.	Cade	Wood	Oil	Oil
	<i>Juniperus sabina</i> L.	Sabina	Fresh flo	vd, fe, es	
DILLENIACEAE	<i>Davilla rugosa</i> Poir.*	Cipó-caboço / Cipó-carijó / Sabatibinha / Folha de lixa / Cap-homem	Lvs	vd, fe	vd
DRYOPTERIDACEAE	<i>Dryopteris filix-mas</i> (L.) Schott	Feto-macho / Denterrua	Rts	Ex, vd	Ex, vd
ERICACEAE	<i>Arctostaphylos uva-ursi</i> (L.) Sprengel	Uva-ursina / Bruxulo	Lvs	vd, fe, pw	Vd
ERYTHROXYLACEAE	<i>Erythroxylum coca</i> Lam.	Coca / Ipadu	Lvs	tn, vd, fe, pw	
EUPHORBACEAE	<i>Croton eluteria</i> (L.) W. Wright	Cascarilha	Wood	tn, vd, ex, fe, pw	
	<i>Croton tiglium</i> L.	Croton	Sed	Oil	
	<i>Euphorbia resinifera</i> O. Berg	Euforbio	Ltx	Empl, vd	

<i>Hevea brasiliensis</i> (Willd. ex A. Juss.) Müll. Arg.*	Borracha / Borracha do Pará / Cautchu / Goma elástica	Ltx	vd
<i>Mallotus philippinensis</i> var. <i>pallidus</i> Airy Shaw	Kamala	Fru	vd, tn
<i>Phyllanthus niruri</i> L.*	Quebra-pedra	Lvs	Vd
<i>Phyllanthus tenellus</i> Roxb.*	Quebra-pedra	Lvs	Vd
<i>Ricinus communis</i> L.	Mamonca	Sed	oil
<i>Abrus precatorius</i> L.	Jequitiri / Periquiti / Yukeryty / Olhos de pombo / Tento / Arvoeiro / Assacu-mirim / Juqueriti	Sed	vd
<i>Acacia catechu</i> (L. f.) Willd. / <i>Acacia suma</i> Buch.-Ham. ex Wall.	Cato / Cato de pegu / Catechu / Terra japônica	Exd	ex, tn
<i>Acacia senegal</i> (L.) Willd.	Goma arabica	Gum	vd, pw
<i>Arachis hypogaea</i> L.*	Amandoin	Sed	oil
<i>Astragalus gummifer</i> Labill.	Goma alcatira	Gum	vd, pw
<i>Bowdichia virgilioides</i> Kunth*	Sucupira / Sicopira / Sebipira	Sed	fe, tn
<i>Copaiba officinalis</i> (L.) Kuntze / <i>C. coriacea</i> (Mart.) Kuntze / <i>C. langsdorffii</i> (Desf.) Kuntze / <i>C. oblongifolia</i> (Mart.) Kuntze*	Bálsamo de copaiba	Balsam	Es
<i>Erythrina mulungu</i> Mart ex Benth.*	Mulungu / Murungu / Suina / Sapatinho de judeu / Bico de papagaio	Wod	fe, tn
<i>Glycyrrhiza glabra</i> L.	Alcaçuz / Regoliz	Rts	vd, ex, fe, pw, ex, fe
<i>Lonchocarpus peckoltii</i> Wawra*	Timbó boticário	Wod	tn, vd, ex, fe
<i>Myrospermum pereirae</i> Royle *	Bálsamo peruviano / Bálsamo do Peru	Balsam	vd, tn
<i>Myroxylon balsamum</i> (L.) Harms	Bálsamo de Tolu	Balsam	vd, tn
<i>Piptadenia colubrina</i> (Vell.) Benth.*	Angico	Wod, gum	fe
<i>Physostigma venenosum</i> Balf. f.	Fava de calabar	Sed	tn, ex, vd, pw
<i>Pterocarpus marsupium</i> Roxb.	Kino / Kino de Malabar / Dino de Madras / Kino de Cochim	juice	Juice
<i>Senna alexandrina</i> P. Mill.	Sene	Lvs	vd, fe, pw
<i>Senna occidentalis</i> L.*	Fedegoso / Magertioba / Pajamaritoba / Payeriaba / Folha de pagé / Tararucu / Mamangá / Lavá-pratos	Rts	vd, fe
<i>Stryphnodendron adstringens</i> (Mart.) Coville*	Barbatimão / Barba de timan / Usabatimó / Ybá timo	rind	fe, tn
<i>Sweetia elegans</i> (Vogel) Benth. *	Perobinha campestre / Perobinha do campo / Leptolbio	Rts, wod	vd, fe
<i>Tamarindus indica</i> L.	Tamarindo	Fru	Polpa, vd
<i>Quercus infectoria</i> G. Olivier	Galha	Galha	tn, vd, pw
<i>Carpotroche brasiliensis</i> (Raddi) Endl. *	Sapucainha	Sed	Oil
<i>Fumaria officinalis</i> L.	Fumária / Erva molarinha	flo	vd, fe
<i>Erythraea centaurium</i> (L.) Borkh.	Centaurea Menor / Quebra febre	Flo	Vd, fe
<i>Gentiana lutea</i> L. / <i>G. pannonica</i> Scop. / <i>G. purpurea</i> L. / <i>G. punctata</i> L.	Gençiana / Argençana	Rts	tn, vd, ex, fe, ex, fe, vd, pw, tn

GERANIACEAE	<i>Geranium maculatum</i> L.	Gerânio	Rts	vd, fe, pw	
HAMAMELIDACEAE	<i>Hamamelis virginiana</i> L.	Hamamelis	Lvs	tn, ex, fe, vd	ex, fe, vd, tn
	<i>Liquidambar orientalis</i> Mill.	Estoraque	Balsam	Bals, Es	balsam
	<i>Aesculus hippocastanum</i> L.	Castanheiro da Índia	Wod	vd, fe	vd
IRIDACEAE	<i>Crocus sativus</i> L.	Açafrão	Estigm	tn, vd, ex, fe, pw	
	<i>Iris florentina</i> L. / <i>I. pallida</i> Lam. / <i>I. germanica</i> L.	Lírio Florentino / Lírio de Florença / Iris florentino	Rts	vd, pw	
JUGLANDACEAE	<i>Juglans regia</i> L.	Nogueira	Lvs	vd, fe	
KRAMERIACEAE	<i>Krameria argentea</i> Mart. ex Spreng.*	Ratânia / Ratânia do Pará	Rts	tn, vd, ex, fe, pw	ex, fe, vd, tn
LAMIACEAE	<i>Cunila microcephala</i> Benth.	Poejo	Lvs, flo	vd, fe	
	<i>Glechoma hederacea</i> L.	Hera Terrestre / Erva de S. João	Aer parts	vd, fe, vd	
	<i>Glechom spathulata</i> Benth.	Mangerona / Mangerona do campo	Lvs, flo	vd, fe	
	<i>Lavandula angustifolia</i> Mill.	Alfazema	Flo	vd, es	Es
	<i>Leonotis nepetaefolia</i> (L.) R. Brown	Cordão de frade / Rubim	Wpl	vd, fe	
	<i>Leonurus sibiricus</i> L.	Erva Macacé	Lvs, flo	vd, fe	
	<i>Melissa officinalis</i> L.	Erva cidreira / Melissa	Aerial pts	vd, fe, es	
	<i>Mentha arvensis</i> L.	Hortelã do Brasil	Aerial pts	es, vd	
	<i>Mentha piperita</i> subsp. <i>citrata</i> Briq.	Hortelã pimentada	Aerial pts	vd, fe, es	
	<i>Mentha viridis</i> (L.) L.	Hortelã comum	Aerial pts	Es	
	<i>Ocimum basilicum</i> L.	Alfavaca	Lvs / flo	vd	
	<i>Ocimum canum</i> Sims	Alfavaca campestre / Remédio do vaqueiro / Segurelha	lvs / flo	vd, fe	
	<i>Peltodon radicans</i> Pohl *	Paracari / Hortelã do Brasil / Hortelão do mato	Flo	vd, fe	
	<i>Rosmarinus officinalis</i> L.	Alecrim	lvs	vd, es	Es
	<i>Salvia officinalis</i> L.	Sálvia / Salva	Lvs	vd	
	<i>Thymus serpyllum</i> L.	Serpão	Lvs	Es	
	<i>Thymus vulgaris</i> L.	Tomilho / Thymo	Flo	vd, es, fe	Es
LAURACEAE	<i>Cinnamomum zeylanicum</i> J.S.Presl.	Canela-do-Ceilão	rind	tn, vd, es, fe, pw	vd, pw, es, fe, tn
	<i>Cinnamomum cassia</i> (Nees) Blume	Canela-da-China	rind	vd, pw	vd, pw,
	<i>Laurus nobilis</i> L.	Loureiro / Loureiro comum / Louro / Louro comum	Fru	vd	
	<i>Dicypellium caryophyllatum</i> Nees*	Canela cravo / Craveiro do Maranhão / Pau cravo / Imira ataia / Ibyragyinhá ou Kiyinia (Tupinico) / Licari-Kani (Caraiba)	Wod	tn, vd, fe	
	<i>Nectandra puberula</i> (Schott) Nees	Canela preta / Canela preta da serra / Canela amargosa / Louro preto / Louro amargos / Surinêa / Pau de Sant'Ana	Wod	tn, vd, ex, fe	
	<i>Sassafras sassafras</i> (L.) H. Karst.	Sassafrás	Rind/ rts	es, pw, vd	Es
	<i>Ocotea sassafras</i> (Meism.) Mez *	Canela Sassafrás / Canela funcho / Louro sassafrás / Anhu-ybe-peabya	Rind	tn, vd, fe, pw	
	<i>Persea gratissima</i> L.	Abacateiro	Lvs	vd, fe	vd, fe

LECYTHIDACEAE	<i>Carintiana brasiliensis</i> Casar.*	Jequitibá / Jequitibá róseo / Jecuiá / Ygibybá	Wod	fe, vd	
LILIACEAE	<i>Allium sativum</i> L.	Alho	Bulbs		Vd
	<i>Aloe ferrox</i> Mill. / <i>A. barbadensis</i> Mill.	Aloe / Azevre	Juice	ex, tn	Juice, pw
	<i>Colchicum autumnale</i> L.	Côchico / Narciso de outono / Açafão bastardo	Sed	tn, ex, fe, pw	vd
	<i>Convallaria majalis</i> L.	Lírio convale / Lírio dos vales / Convalaria / Mugueto	Flo	vd, fe, tn	
	<i>Schoenocaulon officinale</i> (Schltdl. & Cham.) A. Gray ex Benth.	Cevadilha	Sed	vd, tn	
	<i>Urginea maritima</i> (L.) Baker	Scila / Albará branca / Cebola albará / Cebola maritima	Bulbs	tn, vd, fe, pw	
LINACEAE	<i>Veratrum viride</i> Aiton	Heléboro Verde / Heléboro americano	Rts	tn, fe, pw	fe, vd
	<i>Linum usitatissimum</i> L.	Linho / Linhaça	Sed	vd, oil, pw	
LOGANIACEAE	<i>Buddleja brasiliensis</i> Jacq. Ex Spreng.*	Barbasco / Verbasco brasileiro	Lvs	vd, fe	
	<i>Gelsemium sempervirens</i> (L.) J. St.-Hil.	Gelsêmio / Jasmim da Virginia / Jasmim amarelo	Rts	tn, vd, ex, fe, pw	
	<i>Strychnos nux vomica</i> L.	Noz vômica	Sed	tn, ex, fe, pw	tn
	<i>Strychnos pseudo-quina</i> A.Saint-Hil.*	Quina do Campo / Quina do Cerrado / Quina de Mato Grosso	Wod	vd, fe	
LORANTHACEAE	<i>Struthanthus marginatus</i> (Desr.) Blume	Erva de passarinho / Erva de passarinho miúda / Enxerto de passarinho / Oetra	Lvs	vd, fe	
LYCOPODIACEAE	<i>Lycopodium clavatum</i> L.	Licopódio	Esporos	vd, tn	
MAGNOLIACEAE	<i>Drymis winteri</i> Winter *	Casca de anta / Casca de Winter / Paratudo / Caporoca / Melambo	Wod	tn, vd, fe	
	<i>Illicium verum</i> Hook. f.	Badiana / Badiana da China / Anis estrelado / Anis da China	Fru	vd, es, pw, tn	vd, pw, tn
MALVACEAE	<i>Althaea officinalis</i> L.	Altéia / Malvaisco	Rts	vd, pw	vd, pw
	<i>Gossypium herbaceum</i> L.	Algodoeiro	wod	fe	Oil
	<i>Malva sylvestris</i> L.	Malva / Malva selavagem / Malva maior	Lvs	vd	vd
	<i>Urena lobata</i> L.	Guaxima / Guaxima roxa / Malvaisco silvestre	Lvs	vd	Vd
MARANTHACEAE	<i>Marantha arundinaceae</i> L.*	Araruta / Araruta do Brasil, das Antilhas ou das Índias Ocidentais	Starch	vd	
MELIACEAE	<i>Cabralea cangerana</i> Saldanha	Cangerana / Cajá-rana / Cayarana	Wod	vd, fe	
MENISPERMACEAE	<i>Chondodendron platyphyllum</i> (A. Saint-Hil.) Miers*	Abútua / Butua / Baga da praia / laboticaba de cipó / Parreira brava / Parreira silvestre	Rts	tn, ex, fe, pw	vd, pw
	<i>Jatropha palmata</i> (Lam.) Miers*	Calumba	Rts	ex, fe, pw, tn	vd, pw
MENYANTHACEAE	<i>Menyanthes trifoliata</i> L.	Trevo aquático / Trifólio fibrino / Trevo d'água / trevo dos charcos	Lvs	vd	
MONIMIACEAE	<i>Peumus boldus</i> Molina	Boldo	Lvs	vd, fe	vd, pw, fe, tn
	<i>Siparuna apiosyce</i> (Mart. Ex Tul.) A. DC.*	Limoeiro bravo / Limoeiro do mato / Limão bravo / Limãozinho / Cidreira do mato / Cidreira silvestre / Negra mina	Lvs	vd	
MORACEAE	<i>Dorstenia multiflora</i> var. <i>arifolia</i> (Lam.) Bureau *	Carapiá / Caapiá / Contra-herva	Rts	vd, fe	
	<i>Morus nigra</i> L.	Amora	Fru	Juice	

MYRISTICACEAE	<i>Myristica fragrans</i> Houtt.	Noz moscada	Sed	es, butter, pw	Es
MYRTACEAE	<i>Eucalyptus citriodora</i> Hook.	Eucalipto-limão	Lvs	es	
	<i>Eucalyptus globulus</i> Labill.	Eucalipto	Lvs	tn, vd, fe, es	Es
	<i>Eugenia uniflora</i> L.*	Pitangueira	Lvs	tn, vd, fe, es	Vd
	<i>Melaleuca leucadendron</i> L.	Cajupute	Lvs	Es	Es
	<i>Psidium guajava</i> Raddi	Goiabeira / Guaiaba / Araçá uacu / Guaiava / Koyhab (Tupi) / Djambotê	Wod	vd, fe	Vd
NYCTAGINACEAE	<i>Syzygium aromaticum</i> (L.) Merr. & Perry	Cravo da Índia	flo	tn, vd, es, pw	vd, pw, es
	<i>Boerhavia hirsuta</i> Jacq.*	Erva tostão / Tangaraca / Pega pinto / Bredo de porco	Rtis	vd, fe	
OLACACEAE	<i>Psychopetalum olacoides</i> Benth.*	Muirapuama / Marapuama	Rtis	tn, ex, fe, vd	vd
	<i>Fraxinus ornus</i> L.	Maná	Wod	Juice	
OLEACEAE	<i>Olea europaea</i> L.	Oliva	Sed	oil	Oil
	<i>Vanilla planifolia</i> Andrews*	Baunilha	Fru	vd, tn	vd, tn
PAPAVERACEAE	<i>Papaver rhoeas</i> L.	Papoula rubra	Petals	vd, fe	
	<i>Papaver somniferum</i> L.	Dormideira / Papoula branca	fru	vd, tn, ex, fe, ex, fe, pw, tn	
PASSIFLORACEAE	<i>Passiflora alata</i> Curtis*	Maracujá	Lvs	fe, vd, tn	vd
	<i>Sesamum indicum</i> L.	Gergelim	sed	oil	oil
PHYTOLACACEAE	<i>Petiveria tetrandra</i> B.A. Gomes	Pipi / Erva de pipi / Tipi / Erva de guiná / Erva d'alho / Embaya-yendo / Emboyembo / Ocoembo / Mucura-caá	Rtis	vd, fe, tn	
	<i>Abies abies</i> Rusby	Pez de Borgonha / Pez branco / Pez dos vosgos / Pez amarelo / Resina amarela	Resin	vd	
PINACEAE	<i>Larix larix</i> (L.) Karst.	Terebentina de Veneza / Terebentoleo do Larício	Wod	resin	
	<i>Pinus montana</i> Mill.	Pinheiro	Lvs	es, fe	
	<i>Pinus palustris</i> Mill.	Terebintina / Terebentina comum / Terebentina do pinheiro / terebentina de Bordéus / Terebentina francesa	Resin	vd, es	Es
	<i>Pinus sylvestris</i> L.	Pinheiro silvestre	shoot	vd	
	<i>Heckeria umbellata</i> (L.) Kunth *	Pariparoba / Caa-peua / Caapeba / Capeba / Caoma / Catajé / Aguaxima	Rtis	vd, fe, tn	
PIPERACEAE	<i>Piper aduncum</i> L.	Aperta ruão	lvs	fe	
	<i>Piper angustifolium</i> Lam.	Matico / Erva de soldado / Moho-moho / Pimenta matico	lvs	tn, vd, fe, pw	
PIPERACEAE	<i>Piper cubeba</i> L. f.	Cubeba	fru	tn, vd, ex, fe, es, pw	
	<i>Stacte brasiliensis</i> Boiss.*	Guatucu / Baicuru	ris	vd, fe	
POACEAE	<i>Agropyrum repens</i> (L.) Pal. Beauvois	Grama	Rtis	vd, ex, fe	
	<i>Cymbopogon citratus</i> (DC.) Stapf	Capim limão	Lvs		Vd
	<i>Cymbopogon martinianus</i> (Roxb.) Schult.	Palma rosa	Lvs		Es
	<i>Cymbopogon winterianus</i> Jowitt ex Bor	Jacapé / Capim limão	Lvs	Es	Es
	<i>Hordeum vulgare</i> L.	Malte / malta	Sed	ex, vd	ex, vd

		Sapé / Sapé macho	Rts	ex, fe	ex, vd
	<i>Imperata exaltata</i> (Roxb.) Brongn.	Milho	Estil/ est.	vd, ex, fe	ex, vd
	<i>Zea mays</i> L.*				
POLYGALACEAE	<i>Polygala senega</i> L.	Poligala / Poligala da Virgínia / Senega	rts	tn, fe, pw, vd	fe, vd, pw, tn
POLYGONACEAE	<i>Polygonum bistorta</i> L.	Bistorta	Rts	vd, fe	Vd
	<i>Rheum palmatum</i> L./ <i>R. officinale</i> Baill.	Ruibarbo	Rts	tn, vd, ex, fe, pw	ex, fe, vd, vd
PTERIDACEAE	<i>Adiantum capillus-veneris</i> L.	Avena / Avena comum / Cabo de Vênus / Capilaria de Montpellier	fronde	vd, fe	
	<i>Adiantum pedatum</i> L.	Avena do Canadá / Capilaria do Canadá	fronde	vd, fe	
PUNICACEAE	<i>Punica granatum</i> L.	Romeira / Romãzeira	Wod, rts	vd, ex, fe, pw	
RANUNCULACEAE	<i>Aconitum napelus</i> L.	Acônito	Rts	tn, ex, fe, pw	vd, pw, tn
	<i>Adonis vernalis</i> L.	Adonis	Flo	tn, vd, fe, pw	vd
	<i>Cimicifuga racemosa</i> (L.) Nutt.	Cimífuga	Rts	tn, vd, fe, pw	
	<i>Hydrastis canadensis</i> L.	Hidraсте	rts	tn, ex, fe, vd, pw	ex, fe, vd, tn
	<i>Pulsatilla pulsatilla</i> (L.) H. Karst. / <i>P. pratensis</i> (L.) Mill.	Pulsatila / Anemola / Anemona / Camparilha / Flor de Paschoa	Lvs, flo	vd, tn	
RHAMNACEAE	<i>Rhamnus frangula</i> L.	Amêiço preto / Frangula	wod	vd, fe, pw	
	<i>Rhamnus purshiana</i> DC.	Cáscara Sagrada	Wod	tn, fe, ex, pw	vd, pw, ex, vd
ROSACEAE	<i>Amygdalus communis</i> L. var. <i>dulcis</i> (Mill.) DC.	Amêndoa doce	sed	vd	
	<i>Amygdalus communis</i> L. var. <i>amara</i> Ludwig ex DC.	Amêndoa amarga	Sed	vd, es, oil	
	<i>Crataegus oxyacantha</i> subsp. <i>palmstruchii</i> (Lindm.) Hrabetova-Uhrova	Cratego / Piltiço / Espinheiro alvar	flo	vd, fe	vd
	<i>Cydonia cydonia</i> (L.) H. Karst.	Marmelo	Sed	vd	
	<i>Hagea abyssinica</i> J.F. Gmel.	Cusso / Cosso / Kouso / Koso	Flo	vd, fe, pw	
	<i>Prunus domestica</i> L.	Ameixa / Ameixa preta	Fru	vd, fe	vd, fe
	<i>Quillaja saponaria</i> Molina	Quiláia / Casca do Panamá	Wod	vd, fe, tn	
	<i>Rosa gallica</i> L./ <i>R. damascena</i> Mill.	Rosa rubra / Rosa vermelha / Rosa francesa	Flo	vd, fe, Es	
	<i>Rubus rosaeifolius</i> Sm.	Framboesa	Fru	vd	
RUBIACEAE	<i>Borreria centranthoides</i> Cham. & Schlecht.*	Sabugueirinho do campo	Wpl	vd, fe	
	<i>Chiococca brachiata</i> Ruiz & Pav.*	Cainca / Caninana / Cipó cruz / Cruzeirinha / Fedorenta/ Dambre / Raiz de frade	Rts	tn, vd, ex, fe	
	<i>Cinchona calisaya</i> Wedd.	Quina amarela / Quina calisaya	Wod	vd, ex, pw, tn	ex, fe, vd, pw, tn
	<i>Cinchona succirubra</i> Pav. Ex Klotzsch/ <i>C. pubescens</i> Vahl	Quina vermelha / Quina rubra	Wod	vd, ex, fe, pw	vd, pw
	<i>Cephaelis ipecacuanha</i> (Brot.) Stokes* / <i>Cephaelis acuminata</i> Karsten	Ipecacuanha / Ipecacuanha anelada / Ipecacuanha preta / Poata	Rts	tn, ex, fe, vd, pw	ex, fe, pw, tn
	<i>Remijia ferruginea</i> (A. St.-Hil.) DC.*	Quina mineira / Quina de remijio / Quina da serra	Wod	vd, fe, tn	vd, fe, tn

RUTACEAE	<i>Citrus aurantium</i> var. <i>amara</i> L.	Laranja amarga	Fru	es, fe, vd, tn, pw	fe, vd, pw, tn
	<i>Citrus aurantium</i> var. <i>dulcis</i> L.	Laranja doce	Fru	vd, es, vd	
	<i>Citrus medica</i> L.	Limão	Fru	vd, es, vd	Es
	<i>Cuscuta angostura</i> (Spreng.) A. Lyons	Angustura / Angustura verdadeira	Rnd	Ex, fe	
	<i>Parapetalifera betulina</i> (P.J. Bergius) WY Young / <i>P. serratifolia</i> (Curtis) WY Young	Buco / Buchu	Lvs	vd, fe	
	<i>Pilocarpus jaborandi</i> Holmes / <i>P. microphyllus</i> Stapf ex Wardleworth*	Jaborandi	Lvs	tn, fe, vd, pw	vd, tn, vd
	<i>Ruta graveolens</i> L.	Arruda	Wpl	vd, es	
	<i>Xanthoxylum tinguaciba</i> A. Saint-Hil.*	Tinguaciba	Wod	tn, fe, vd	
SANTALACEAE	<i>Santalum album</i> L.	Sândalo citrino	Wod	vd, es	
SAPINDACEAE	<i>Paullinia cupana</i> Kunth*	Guaraná / Uaraná	Sed	fe, vd, pw	fe, vd, pw, tn, vd
SAPOTACEAE	<i>Chrysophyllum gonocarpum</i> (Mart. & Eichler) Engler (Aguai)	Monésia / Buranhem / Guaranhem / Casca doce	Wod	tn, vd, ex	
	<i>Palaquium</i> Blanco	Guta percha / Getania	Juice	juice	
SCROFULARIACEAE	<i>Digitalis lanata</i> Ehrhart	Digitalis lanata	Lvs	vd, pw	vd
	<i>Digitalis purpurea</i> L.	Dedaleira / Digital / Erva dedal / Luvas de N. Senhoras	Lvs	tn, vd, ex, fe, pw	vd, pw, vd
SIMAROUBACEAE	<i>Pterocarpus excelso</i> (Sw.) Planch.*	Quássia / Quássia da Jamaica / Quássia de Surinam	Wod	tn, vd, ex, fe	
	<i>Simarouba amara</i> Aubl.*	Simaruba / Maruba / Marupá	rnd	fe, vd	vd
SMILACACEAE	<i>Smilax japicanga</i> Griseb.*	Japecanga / Jupicanga / Inhapecanga / Salsa do campo	Rts	vd, fe	
	<i>Smilax papyracea</i> DuRoi, <i>S. syphililitica</i> Griseb. / <i>S. officinalis</i> Kunth / <i>Smilax medica</i> Schldl. & Cham.*	Salsaparrilha / Salsaparrilha do Pará / Salsaparrilha de Minas Gerais / Salsaparrilha do México	Rts	vd, ex, fe, pw	
SOLANACEAE	<i>Atropa belladonna</i> L.	Beladona	Lvs	vd, ex, fe, pw, tn	vd, pw, ex, fe, tn
	<i>Brunfelsia hopeana</i> Benth.*	Manacá / Manacã / Jerataca / Jeratacaca / Cagambá / Jasmin do Paraguai / Manajá	Rts	vd, fe, tn	
	<i>Cestrum laevigatum</i> Schl.	Coerana	Lvs	tn, vd, fe	
	<i>Datura arborea</i> L.	Trombeteira	Lvs	tn, vd, ex, fe, pw	vd
	<i>Datura stramonium</i> L.	Estramônio / Figueira do inferno	Lvs	tn, vd, ex, fe, pw	vd
	<i>Hyoscyamus niger</i> L.	Meimendo / Meimendo negro	Lvs	tn, ex, fe, pw	vd, pw
	<i>Solanum dulcamara</i> L.	Doce amarga / Dulcamara / Uva de cão / Erva moura de trepa / Vinha da Índia	wod	vd, fe, pw	
	<i>Solanum paniculatum</i> L.*	Jurubeba / Juripeba / Juvena / Juina	Rts	tn, ex, fe, vd	
STERCULIACEAE	<i>Cola nitida</i> (Vent.) Schott & Endl.	Cola / Noz de cola / Guru / Ombenê / Nangouê / Noz de Gondja	Sed	tn, ex, fe, pw	vd, fe
	<i>Sterculia villosa</i> Roxb. / <i>S. urens</i> Roxb. / <i>S. iragacantha</i> Lindl.	Goma caraiá	Gum	vd, pw	
	<i>Theobroma cacao</i> L.	Cacau	Sed	fe, butter	vd, pw, butter

	<i>Waltheria douradinha</i> A. Saint-Hil.*	Douradinha	Aerial parts	vd
STYRACACEAE	<i>Syrrax tonkinense</i> Craig / <i>S. siamense</i>	Benjoim / Benjoim de Siam	Resin	vd, tn, tn
	Rodorf / <i>S. benzoides</i> Craib			tn
TILIACEAE	<i>Tilia cordata</i> Mill. / <i>T. platyphyllos</i> Scop.	Tília	Flo	vd
VALERIANACEAE	<i>Valeriana officinalis</i> L.	Valeriana	Rts	tn, vd, ex, fe, fe, tn, vd
				pw
VERBENACEAE	<i>Lantana camara</i> L.*	Cambará	Lvs	vd, fe
	<i>Lippia pseudo-thea</i> Schauer *	Chá de pedestre / Chá de frade / Capitão do mato	Lvs, flo	vd, fe
	<i>Stachytarpheta dichotoma</i> (Ruiz & Pav.) Vahl *	Gervão roxo	Lvs	vd, fe
VIOLACEAE	<i>Anchietae salutaris</i> A. Saint-Hil. *	Cipó suma / Pereiguar / Piraguara / Piriguara	Rts	tn, vd, ex, fe
	<i>Viola odorata</i> L.	Violeta / Viola	Flo	vd
VITACEAE	<i>Cissus alata</i> Jacq.*	Mãe boa	Lvs	vd, fe
ZINGIBERACEAE	<i>Alpinia officinarum</i> Hance	Galanga	Rts	vd, pw
	<i>Curcuma domestica</i> Valetton	Curcuma	Rts	vd, pw, tn
	<i>Curcuma zedoaria</i> (Christm.) Roscoe	Zedoária	Rts	vd, pw
	<i>Elettaria cardamomum</i> (L.) Maton	Cardamomo / Cardamomo de Malabar	Sed	tn, vd, es, pw, vd, pw
	<i>Renealmia exaltata</i> L. f. *	Pacová / Paco seroca / Cutité açú	Sed	vd, es, tn
	<i>Zingiber officinalis</i> L.	Gengibre	Rts	tn, es, vd, fe, es
ZYGOPHYLLACEAE	<i>Guajacum officinalis</i> L. / <i>G. sanctum</i> L.	Guaiaco / Pau santo	wod	tn, vd, ex, fe

* Species native from Brazil

es = essential oils; ex = dry extract; fe = fluid-extract; flo = flowers; lvs = leaves; oil = fixed oil, pw = powdered drug; md = rind; rts = roots; sed = seed, tn = tincture; vd = vegetal drug; wod = wood; wpl = whole plant.

Table 2. Number of monographs for native species in each edition of Brazilian Official Pharmacopoeia

Edition of Pharmacopoeia	Number (%) of Monographs		
	Native	Others	Total
1 st edition (1926)	196 (27,5)	517 (72,5)	713
2 nd edition (1959)	32(15,6)	173 (84,4)	205
3 rd edition (1977)	4 (17,4)	19 (82,6)	23
4 th edition (1996)	11 (25)	33 (75)	44

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