



Association of South East Asian Nations (ASEAN)

ANNEX I

ASEAN GUIDING PRINCIPLES FOR INCLUSION INTO OR EXCLUSION FROM THE NEGATIVE LIST OF SUBSTANCES FOR TRADITIONAL MEDICINES AND HEALTH SUPPLEMENTS



DOCUMENT INFORMATION

This version is adopted at the 18th ASEAN TRADITIONAL MEDICINES AND HEALTH SUPPLEMENTS SCIENTIFIC COMMITTEE MEETING (ATSC) 11-13 March 2013, Nay Pyi Taw, Myanmar and endorsed at the 19th ACCSQ TRADITIONAL MEDICINES AND HEALTH SUPPLEMENTS PRODUCT WORKING GROUP (TMHSPWG) MEETING 28-29 June 2013, Bagan, Myanmar.

Version No.	History of adoption and endorsement		Reasons for revision
	Adoption date	Endorsement date	
1	9th ATSC Meeting 22-23 Nov 2010	14th TMHSPWG Meeting 24-25 Nov 2010	-
2	13th ATSC Meeting 14-15 Nov 2011	16th TMHSPWG Meeting 17-18 Nov 2011	Editorial changes. The word "legislations" to be replaced with "regulations" in entire document to address the concerns that may arise from legal complexities.
3	18th ATSC Meeting 11-13 Mar 2013 23rd ATSC Meeting 23-24 June 2014	19th TMHSPWG Meeting 28-29 Jun 2013 21st TMHSPWG Meeting 27-28 June 2014	Editorial changes. To delete Clause 3 from the Guiding Principles, and to create separate negative list for TM and HS. Updated the adopted list of substances



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PURPOSE

The ASEAN Guiding Principles for Inclusion into or Exclusion from the Negative List of Substances for Traditional Medicines and Health Supplements list the active substances that are prohibited from being used in or being part of the composition of Traditional Medicine and/or Health Supplement products. The list is prepared from the following guidelines established to govern the acceptance of active substances to the list based on scientific rationale.

GUIDING PRINCIPLES

1. A substance must carry a scientifically demonstrated/proven safety concern that its inclusion into a Traditional Medicine and Health Supplement product will be harmful to human health¹.
2. A substance that qualifies for inclusion into the list should carry the following details but not limited to:
 - 2.1. Identity of the substance
 - 2.1.1. Taxonomy classification e.g. scientific name by genus and species
 - 2.1.2. Common name/ traditional name
 - 2.1.3. CAS No
 - 2.2. Source of the substance (e.g. natural/synthetic/certain part or whole plant /animal)
 - 2.3. Rationale for inclusion (e.g. toxic² effect of the substance e.g. acute, sub-acute, chronic, specific toxicity)

¹ "Harmful to human health" is defined as any experience affecting the majority of a population resulting in any of the following outcomes: death, a life-threatening adverse experience, inpatient hospitalisation or prolongation of existing hospitalisation, a persistent or significant disability/incapacity, or a congenital anomaly/birth defect. Important medical events that may not result in death, be life-threatening, or require hospitalisation may be considered harmful when, based on appropriate medical judgment, they may jeopardise the individual and may require medical or surgical intervention to prevent one of the outcomes previously listed - *adapted from: IOM (Institute of Medicine). Dietary supplements: A framework for evaluating safety. Washington, DC: The National Academies Press; 2005*



- 2.4. References (e.g. formulary, monograph/scientific report)
3. The negative list should only include substances that are prohibited for use in a traditional medicine and/or health supplement product.
4. This negative list should not include:
 - 4.1. Substances in the ASEAN List of Restricted Additives and Excipients for Traditional Medicines and Health Supplements.
 - 4.2. Nutrients with established ASEAN maximum levels (e.g. vitamins and minerals).
 - 4.3. Naturally occurring toxic contaminants that are within established limits (e.g. lead)
 - 4.4. Substances which are prohibited under existing wildlife protection laws of all Member States.
5. Prohibited substances in the national regulations of ASEAN Member States, where applicable, are prohibited in Traditional Medicines and/or Health Supplements. Member States are recommended to propose relevant substances from their national regulation for inclusion into the ASEAN Negative List for Traditional Medicines and Health Supplements; as long as their inclusion meets the criteria set in this guideline.
6. Proposal for inclusion or exclusion of substances into the ASEAN Negative List for Traditional Medicines and Health Supplements should be based on scientific rationale pertaining to human safety concerns and not upon majority rule or the commonality of a particular substance in the existing national negative lists of each Member State.
7. Please refer to Appendix 1 for Negative List of Substances for Traditional Medicines and Appendix 2 for Negative List of Substances for Health Supplements.

It is important to differentiate between potential side effects and toxic effects



APPENDICES

Appendix 1 NEGATIVE LIST OF SUBSTANCES FOR TRADITIONAL MEDICINES

This list is adopted at the 19th ACCSQ Traditional Medicines and Health Supplements Scientific Committee Meeting on 24-27 June 2013, Bagan, Myanmar and endorsed at the 19th ACCSQ Traditional Medicines and Health Supplements Product Working Group Meeting on 28-29 June 2013, Bagan, Myanmar.

Scientific Name & Photos	Common name(s)	Harmful Animal/ Plant Part(s)	Name of Harmful Compound or Compound Class	Ban Status in TM
<i>Adonis vernalis</i> L.	Pheasant's eye	Whole plant	Adonitoxin	Banned
<i>Aristolochia</i> spp. (all species) containing aristolochic acid	Birthwort, Pelican flower, Sangree root, Sangrel, Serpentaria, Snakeroot, Snakeweed	Whole plant	Aristolochic acid	Banned
<i>Aspidosperma quebracho- blanco</i> Schltdl.	Quebracho	Bark	Aspidospermine	Banned
<i>Atropa belladonna</i> L.	Deadly Nightshade	Whole plant	Scopolamine, Hyoscyamine, Atropine	Banned



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Scientific Name & Photos	Common name(s)	Harmful Animal/ Plant Part(s)	Name of Harmful Compound or Compound Class	Ban Status in TM
<i>Calotropis gigantea</i> (L.) Dryand. <i>Calotropis procera</i> (Aiton) Dryand.	Crown flower, Giant milkweed	Latex	Cardiac glycosides, Calotropin	Banned
<i>Cannabis sativa</i> L. <i>Cannabis indica</i> Lam.	Marijuana	Whole plant	Cannabinoids	Banned
<i>Catharanthus roseus</i> (L.) G.Don	<i>Vinca rosea</i> , Periwinkle Madagascar, Old Maid	Whole plant	Vinca alkaloids	Banned
<i>Chondrodendron tomentosum</i> Ruiz & Pav.	Curare	Stems	Tubocurarine chloride	Banned
<i>Citrullus colocynthis</i> (L.) Schrud.	Bitter apple	Seed, fructus	Curcubitacin	Banned
<i>Claviceps purpurea</i> (Fr.) Tul.	Ergo	Sclerotium	Ergot alkaloids (including Ergotamine and Ergometrine)	Banned



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Scientific Name & Photos	Common name(s)	Harmful Animal/ Plant Part(s)	Name of Harmful Compound or Compound Class	Ban Status in TM
<i>Colchicum autumnale</i> L.	Meadow saffron	Seed	Cochicine	Banned
<i>Conium maculatum</i> L.	Hemlock	Whole plant	Coniine	Banned
<i>Delphinium staphisagria</i> L.	Stavesacre	Seeds	Delphinine, Staphisine	Banned
<i>Digitalis</i> spp. (all species) containing glycoside	-	Leaf	Cardiac glycoside	Banned
<i>Drimia maritima</i> (L.) Stearn Syn. <i>Urginea maritima</i> (L.) Baker	Sea squill, Red squill, Sea onion, Squill	Bulb	Cardiac glycoside	Banned
<i>Excoecaria agallocha</i> L.	Blinding tree	Latex	Excoecaria phorbol	Banned
<i>Gelsemium sempervirens</i> (L.) J.St.-Hil. <i>Gelsemium elegans</i> (Gardner & Chapm.) Benth.	Palaung Thay	Root, Leaves and rhizomes	Gelsemine & Gelseminine (Gelsemium Indole alkaloid)	Banned



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Scientific Name & Photos	Common name(s)	Harmful Animal/ Plant Part(s)	Name of Harmful Compound or Compound Class	Ban Status in TM
<i>Gluta usitata</i> (Wall.) Ding Hou <i>Syn. Melanorrhoea usitata</i> Wall.	Vanish tree	Latex	Urushic acid, Urushiol, Cardanol, Cardol, Anacardic acid	Banned
<i>Hyoscyamus muticus</i> L. <i>Hyoscyamus niger</i> L.	Henbane, Henblain, Jusquaime	Whole plant	Hyoscyamine, Atropine, Hyoscine	Banned
<i>Juniperus sabina</i> L.	Savin, Savine	Extracted Essential oil (i.e. Savin Oil)	Sabinyl acetate, Sabinene, Podophyllo-toxin and others	Banned
<i>Larrea tridentata</i> (Sessé & Moc. ex DC.) Coville <i>Larrea mexicana</i> Moric.	Chaparral	Whole plant	Main harmful compounds in chaparral are Lignans, in which nordihydro-guaiaretic acid (NDGA) is the major compound	Banned
<i>Lobelia nicotianifolia</i> Roth ex Schult. <i>Lobelia inflata</i> L. <i>Lobelia tupa</i> L.	Indian tobacco	Whole plant	Lobeline	Banned
<i>Lytta vesicatoria</i> Linn.	Spanish flies	Whole body, tinktur	Cantharidin	Banned



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Scientific Name & Photos	Common name(s)	Harmful Animal/ Plant Part(s)	Name of Harmful Compound or Compound Class	Ban Status in TM
<i>Melaleuca alternifolia</i> (Maiden & Betche) Cheel	Tea tree oil (TTO)	Tea tree oil	Tea tree oil	Banned in TM (oral)
<i>Mitragyna speciosa</i> (Korth.) Havil.	Kratom	Whole plant	Mitragynine indole, alkaloid	Banned
<i>Nicotiana tabacum</i> L.	Tobac	leaf	Nicotine	Banned
<i>Papaver</i> spp. (all species) containing morphine & derivatives and codeine	Opium poppy	Whole plant	Morphine and derivatives, codeine	Banned
<i>Pilocarpus microphyllus</i> Stapf ex Wardleworth <i>Pilocarpus jaborandi</i> Holmes <i>Pilocarpus pennatifolius</i> Lem.	Jaborandi	Bark	Pilocarpine	Banned
<i>Piper methysticum</i> G.Forst.	Kava Kava	Whole plant	Pyrones, ethanol extract	Banned
<i>Podophyllum emodi</i> Wall. ex Hook.f. & Thomson	American mayapple, Mandrake	Roots, leaves	Podophyllin resin	Banned



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Scientific Name & Photos	Common name(s)	Harmful Animal/ Plant Part(s)	Name of Harmful Compound or Compound Class	Ban Status in TM
<i>Podophyllum peltatum</i> L.				
<i>Psilocybe cubensis</i> (Earle) Singer	Boomers, Gold caps	Whole plant	Psilocybine, Psilocin	Banned
<i>Schoenocaulon officinale</i> (Schltld. & Cham.) A.Gray	Sabadilla	Seed	Veratrine	Banned
<i>Scilla sinensis</i> (Lour.) Merr.	-	Bulb	Cardiac glycoside	Banned
<i>Senecio aureus</i> L. <i>Senecio jacobaea</i> L. <i>Senecio bicolor</i> Sch.Bip. <i>Senecio nemorensis</i> L. <i>Senecio vulgaris</i> L. <i>Senecio longilobus</i> Benth. <i>Senecio scandens</i> Buch.-Ham. ex D.Don	-	whole plant	pyrrolizidine alkaloids	Banned
<i>Solanum dulcamara</i> L. <i>Solanum americanum</i> Mill.	Bittersweet, Nightshade	Leaf, flowering tops	Solanaceous alkaloids	Banned



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Scientific Name & Photos	Common name(s)	Harmful Animal/ Plant Part(s)	Name of Harmful Compound or Compound Class	Ban Status in TM
<i>Syn. Solanum nigrum L.</i>				
<i>Spigelia marilandica L.</i>	Worm grass, Pinkroot	Whole plant	Spigeline (a strychnine-like alkaloid)	Banned
<i>Strophanthus spp.</i> (all species) containing strophanthus alkaloids	Kombe	Whole plant	Strophanthus Alkaloids	Banned
<i>Veratrum viride Aiton</i> <i>Veratrum album L.</i> <i>Veratrum mengtzeanum O.Loes.</i> <i>Veratrum nigrum L.</i> <i>Veratrum stenophyllum Diels</i> <i>Veratrum maackii Regel</i> <i>Veratrum dahuricum (Turcz.) O.Loes.</i> <i>Veratrum grandiflorum (Maxim. ex Miq.) O.Loes.</i> <i>Veratrum taliense O.Loes.</i>	American Hellebore, Indian Poke, Indian Hellebore, False Hellebore, Green False Hellebore, White Hellebore	Whole Plant	Veratrum alkaloids including veratramine, cyclopamine, cycloposine, jervine, and muldamine	Banned



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Scientific Name & Photos	Common name(s)	Harmful Animal/ Plant Part(s)	Name of Harmful Compound or Compound Class	Ban Status in TM
<i>Vinca minor</i> L.	Periwinkle, Myrtle	Whole plant	Indole alkaloids: Vincamine, eburnamenine	Banned

[Information on the reasons and supporting references is available as a compendium of the negative list.]

Appendix 2 NEGATIVE LIST OF SUBSTANCES FOR HEALTH SUPPLEMENTS

This list is adopted at the 19th ACCSQ Traditional Medicines and Health Supplements Scientific Committee Meeting on 24-27 June 2013, Bagan, Myanmar and endorsed at the 19th ACCSQ Traditional Medicines and Health Supplements Product Working Group Meeting on 28-29 June 2013, Bagan, Myanmar.

Scientific Name & Photos	Common name(s)	Harmful Animal/ Plant Part(s)	Name of Harmful Compound or Compound Class	Ban Status in HS
<i>Abrus precatorius</i> L.	Indian Licorice, Precatory bean, Jequerity, Mutual love Bean (China), Kudri Mani (Tamil), Guru Ginja (Telegu)	Seed	Abrin, which consists of abrus agglutinin, and toxic lectins abrans	Banned



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Scientific Name & Photos	Common name(s)	Harmful Animal/ Plant Part(s)	Name of Harmful Compound or Compound Class	Ban Status in HS
<i>Aconitum spp.</i> (all species) containing aconite alkaloids	Monkshood, Aconite	Whole plant	Aconite alkaloids	Banned
<i>Adonis vernalis L.</i>	Pheasant's eye	Whole plant	Adonitoxin	Banned
Animals parts containing hormones (all species)	-	Parts that may contain hormones: Pituitary gland, Thyroid gland, Parathyroid glands, Adrenal glands, Pancreas, Thymus gland, Ovary, Testes, Placenta	Growth hormone, prolactin, adrenocortico-tropic hormone, Thyroid-stimulating hormone, Follicle-stimulating hormone, luteinizing hormone, oxytocin, antidiuretic hormone, thyroid hormone, calcitonin, parathyroid hormone, mineralocorti-coids, glucocorti-coids, sex hormones, insulin, glucagon, thymosin, estrogens, progesterone, testosterone	Banned
<i>Antiaris toxicaria Lesch.</i>	Upas tree (Javanese Language-arrow poison), Bark cloth Tree	Latex, Sap	Cardiac glycoside (antiarin), Cardenolides & Alkaloids (with cardiac arresting potential)	Banned



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Scientific Name & Photos	Common name(s)	Harmful Animal/ Plant Part(s)	Name of Harmful Compound or Compound Class	Ban Status in HS
<i>Aristolochia</i> spp. (all species) containing aristolochic acid	Birthwort, Pelican flower, Sangree root, Sangrel, Serpentaria, Snakeroot, Snakeweed	Whole plant	Aristolochic acid	Banned
<i>Artemisia</i> spp. (all species) containing artemisinin	Wormwood	Leaf	Artemisinin	Banned
<i>Aspidosperma quebracho-blanco</i> Schltl.	Quebracho	Bark	Aspido-spermine	Banned
<i>Atropa belladonna</i> L.	Deadly Nightshade	Whole plant	Scopolamine; Hyoscyamine; Atropine	Banned
<i>Azadirachta indica</i> A.Juss.	Nimba, Neem	Seeds	Azadirachtin and derivatives	Banned
<i>Berberis</i> spp. (all species) containing berberine e.g. <i>Berberis vulgaris</i> L.	Mahonia Aquifolium: Oregon Grape, Mountain Grape, Barberry. Mahonia Repens: Creeping Barberry, Creeping Mahonia, Creeping Oregon-Grape. Mahonia Nervosa: Dwarf Oregon-grape, Cascade Oregon-grape, Dull Oregon-grape	Root, bark, rhizome	Berberine	Banned



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Scientific Name & Photos	Common name(s)	Harmful Animal/ Plant Part(s)	Name of Harmful Compound or Compound Class	Ban Status in HS
<i>Bucea javanica</i> (L.) Merr.	Sumatrana amarissimus, Java brucea	Dried fruits & seed	Bruceine, Bruceantinol and Bruceoside	Banned
<i>Bufo gargarizans</i> Cantor <i>Bufo melanostictus</i> Schneider <i>Bufo vulgaris</i> Lour.	Toad, Samsu, kodok kerok	Venom, dried secretion, whole body	Cinobufagin, resibufagenin, bufagins, catecholamines: asbufothionine	Banned
<i>Calotropis gigantea</i> (L.) Dryand. <i>Calotropis procera</i> (Aiton) Dryand.	Crown flower, Giant milkweed	Latex	Cardiac glycosides, calotropin	Banned
<i>Cannabis sativa</i> L. <i>Cannabis indica</i> Lam.	Marijuana	Whole plant	Cannabinoids	Banned
<i>Catharanthus roseus</i> (L.) G.Don	<i>Vinca rosea</i> , Periwinkle Madagascar, Old Maid	Whole plant	Vinca alkaloids	Banned
<i>Cerbera manghas</i> L.	Dog bane, Pink eyed cerbera	Seed	Digitoxinglyco-side, Cerberine, Cerberoside, thevetin	Banned



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Scientific Name & Photos	Common name(s)	Harmful Animal/ Plant Part(s)	Name of Harmful Compound or Compound Class	Ban Status in HS
<i>Cerbera odollam</i> Gaertn.	Indian Suicide Tree, Sea Mango	Seed	Cerberin, cerebroside, odollin, odolotoxin, thevetin and cerapain.	Banned
<i>Chelidonium majus</i> L.	Celandine, Great Celandine, Nipplewort	Dried, whole or cut aerial parts	Berberine, chelidonine, sanguinarine, coptisine, chelerythrine	Banned
<i>Chondrodendron tomentosum</i> Ruiz & Pav.	Curare	Stems	Tubocurarine chloride	Banned
<i>Cinchona</i> spp.	Quine bark	Bark	Cinchona alkaloids ex. Quinine and Derivatives	Banned
<i>Citrullus colocynthis</i> (L.) Schrud.	Bitter apple	Seed, fructus	Curcubitacin	Banned
<i>Claviceps purpurea</i> (Fr.) Tul.	Ergo	Sclerotium	Ergot alkaloids (including ergotamine and ergometrine)	Banned
<i>Colchicum autumnale</i> L.	Meadow saffron	Seed	Cochicine	Banned
<i>Conium maculatum</i> L.	Hemlock	Whole plant	Coniine	Banned



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Scientific Name & Photos	Common name(s)	Harmful Animal/ Plant Part(s)	Name of Harmful Compound or Compound Class	Ban Status in HS
<i>Croton tiglium</i> L.	Croton	Fruit, seeds and oil	Croton oil containing: Crotonic acid, tiglic acid, crotin, cocarcinogen Phorbol ester	Banned
<i>Datura</i> spp. (all species) containing hyoscyamine, atropine, scopolamine and apoptropine	Jimson weed, Devil's apple, Green Dragon, Zombie's Cucumber, Moon Weed, Trumpet Lily, Stinkweed	Leaf, seed, flowering or fruiting parts with branches	Hyoscyamine, atropine, scopolamine, apotropine	Banned
<i>Delphinium staphisagria</i> L.	Stavesacre	Seeds	Delphinine, Staphisine	Banned
<i>Digitalis</i> spp. (all species) containing glycoside	-	Leaf	Cardiac glycoside	Banned
<i>Drimia maritima</i> (L.) Stearn <i>Syn. Urginea maritima</i> (L.) Baker	Sea squill, red squill, sea onion, squill	Bulb	Cardiac glycoside	Banned
<i>Dryobalanops sumatrensis</i> (J.F.Gmel.) Kosterm. <i>Syn. Dryobalanops aromatica</i> C.F.Gaertn.	Borneo camphor, Kapur, Malay Camphor, Sumatra camphor	Whole plant	Borneol (Borneo camphor)	Banned in oral preparation



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<i>Dryobalanops lanceolata</i> Burck				
<i>Dryopteris filix-mas</i> (L.) Schott	Male Fern, aspidium, Male Shield Fern	Rhizome	Filicin, aspidinol	Banned
<i>Euphorbia antiquorum</i> L. <i>Euphorbia trigona</i> Mill.	Triangular spurge	Latex	Alpha euphorbol, Beta amyryn cycloartenol Euphol	Banned
<i>Excoecaria agallocha</i> L.	Blinding tree	Latex	Excoecaria phorbol	Banned
<i>Fritillaria</i> spp.	Fritillary bulb	Dried bulb	Alkaloid: chinpeimine, fritimine, beilupeimine hashimirine peimine peimisine	Banned
<i>Garcinia elliptica</i> Wall. ex Wight <i>Garcinia hanburyi</i> Hook.f. <i>Garcinia morella</i> (Gaertn.) Desr.	Gamboge	Gum resin	Cambogic acid, β -guttiferin, α -1-guttiferin	Banned
<i>Gelsemium semperivirens</i> (L.) J.St.-Hil.	Palaung Thay	Root, leaves and rhizomes	Gelsemine & Gelseminine (Gelsemium indole)	Banned



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Scientific Name & Photos	Common name(s)	Harmful Animal/ Plant Part(s)	Name of Harmful Compound or Compound Class	Ban Status in HS
<i>Gelsemium elegans</i> (Gardner & Chapm.) Benth.			alkaloid)	
<i>Gluta usitata</i> (Wall.) Ding Hou Syn. <i>Melanorrhoea usitata</i> Wall.	Vanish tree	Latex	Urushic acid, Urushiol, Cardanol, Cardol, Anacardic acid	Banned
<i>Hyoscyamus muticus</i> L. <i>Hyoscyamus niger</i> L.	Henbane, Henblain, Jusquaime	Whole plant	Hyoscyamine, atropine, hyoscine	Banned
<i>Jatropha multifida</i> L.	Coral Bush, Coral Plant, Physic nut, Guatemala rhubarb	Fruits/Seeds	Phytotoxin (Toxalbumin - Curcin)	Banned
<i>Juniperus sabina</i> L.	Savin, Savine	Extracted Essential oil (i.e. Savin Oil)	Sabinyl acetate, sabinene, podophyllo-toxin and others	Banned
<i>Lantana camara</i> L.	Tembelekan (tahi ayam)	Whole plant	Lantadene 2,2% from dry leave and stem Lancameron	Banned
<i>Larrea tridentata</i> (Sessé & Moc. ex DC.) Coville	Chaparral	Whole plant	Main harmful compounds in chaparral are Lignans, in which nordihydro-guaiaretic acid (NDGA)	Banned



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Scientific Name & Photos	Common name(s)	Harmful Animal/ Plant Part(s)	Name of Harmful Compound or Compound Class	Ban Status in HS
<i>Larrea mexicana</i> Moric.			is the major compound	
<i>Lobelia nicotianifolia</i> Roth ex Schult. <i>Lobelia inflata</i> L. <i>Lobelia chinensis</i> Lour. <i>Lobelia tupa</i> L.	Indian tobacco	Whole plant	Lobeline	Banned
<i>Lytta vesicatoria</i> Linn.	Spanish flies	Whole body, tinktur	Cantharidin	Banned
<i>Magnolia officinalis</i> Rehder & E.H.Wilson	Houpo, Houpohua, Lamp post, Officinal magnolia	Whole plant	Bark:level of magnolol 2-11%, honokiol 0.3-4.6%,eudes mol <1%, < 200mg of bark/dosage form has to be from a Chinese formulation and contraindicated in pregnancy (emmena-gogue)	Banned
<i>Melaleuca alternifolia</i> (Maiden & Betche) Cheel	Tea tree oil (TTO)	Tea tree oil	Tea tree oil	Banned
<i>Mitragyna speciosa</i> (Korth.) Havil.	Kratom	Whole plant	Mitragynine indole, alkaloid	Banned



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Scientific Name & Photos	Common name(s)	Harmful Animal/ Plant Part(s)	Name of Harmful Compound or Compound Class	Ban Status in HS
<i>Mucuna pruriens</i> (L.) DC.	Cowhage, Cowage	Seed	Dopamine, Nicotine, Physostigmine	Banned
<i>Mylabris phalerata</i> Pall. <i>Mylabris cichorii</i> Linnaeus	Blister beetle, Mylabris	Dried body	Cantharidin	Banned
<i>Nerium oleander</i> L. Syn. <i>Nerium indicum</i> Mill.	Indian oleander, Exile Tree	Whole plant	Neriin	Banned
<i>Nicotiana tabacum</i> L.	Tobac	Leaf	Nicotine	Banned
<i>Papaver</i> spp. (all species) containing morphine & derivatives and codeine	Opium poppy	Whole plant	Morphine and derivatives, codeine	Banned
<i>Pausinystalia johimbe</i> (K.Schum.) Pierre ex Beille	Yohimbe	Bark	Yohimbine	Banned
<i>Physostigma venenosum</i> Balf.	Calabar bean	Seed, bean	Physostigmine	Banned
<i>Pilocarpus microphyllus</i> Stapf ex	Jaborandi	Bark	Pilocarpine	Banned



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<p>Wardleworth</p> <p><i>Pilocarpus jaborandi</i> Holmes</p> <p><i>Pilocarpus pinnatifolius</i> Lem.</p>				
<i>Piper methysticum</i> G.Forst.	Kava Kava	Whole plant	Pyrones, ethanol extract	Banned
<i>Plumbago zeylanica</i> L.	White leadwort	Roots	Plumbagin	Banned
<i>Plumbago indica</i> L.	Rose-coloured leadwort	Root, root bark	Plumbagin	Banned
<p><i>Podophyllum emodii</i> Wall. ex Hook.f. & Thomson</p> <p><i>Podophyllum peltatum</i> L.</p>	American mayapple, Mandrake	Roots, leaves	Podophyllin resin	Banned
<i>Psilocybe cubensis</i> (Earle) Singer	Boomers, Gold caps	Whole plant	Psilocybine, Psilocin	Banned
<i>Punica granatum</i> L.	Pomegranate	Stem bark and root bark	Pomegranate alkaloids	Banned



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<p><i>Rauwolfia serpentina</i> (L.) Benth. ex Kurz</p> <p>Syn. <i>Ophioxylon serpentinum</i> L.</p> <p><i>Rauwolfia vomitoria</i> Afzel.</p>	Rauwolfia, Indian snakeroot, Snakeroot	Root, whole plant	Reserpine, Rescinnamine, ajmalane	Banned
<i>Sanguinaria canadensis</i> L.	Bloodroot, Indian Paint	Rhizomes and roots	Sanguinarine, chelerethrin, sanguirulin, berberine, protopine	Banned
<i>Schoenocaulon officinale</i> (Schltdl. & Cham.) A.Gray	Sabadilla	Seed	Veratrine	Banned
<i>Scilla sinensis</i> (Lour.) Merr.	-	Bulb	Cardiac glycoside	Banned
<p><i>Senecio aureus</i> L.</p> <p><i>Senecio jacobaea</i> L.</p> <p><i>Senecio bicolor</i> Sch.Bip.</p> <p><i>Senecio nemorensis</i> L.</p> <p><i>Senecio vulgaris</i> L.</p> <p><i>Senecio longilobus</i> Benth.</p>	-	Whole plant	Pyrrrolizidine alkaloids	Banned



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<i>Senecio scandens</i> Buch.-Ham. ex D.Don				
<i>Solanum dulcamara</i> L. <i>Solanum americanum</i> Mill. Syn. <i>Solanum nigrum</i> L.	Bittersweet, Nightshade	Leaf, flowering tops	Solanaceous alkaloids	Banned
<i>Sophora tomentosa</i> L.	Sea coast Laburnum, Silver Bush	Seed	Alkaloids - matrine, cytisine	Banned
<i>Spigelia marilandica</i> L.	Worm grass, Pinkroot	Whole plant	Spigeline (a strychnine-like alkaloid)	Banned
<i>Stephania tetrandra</i> S.Moore	Fang ji Fen fang ji Han fang ji Stephania-root	Whole plant	Aristolochic acid	Banned
<i>Strophanthus</i> spp. (all species) containing strophanthus alkaloids	Kombe	Whole plant	Strophanthus alkaloids	Banned



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<i>Strychnos nux-vomica</i> L. <i>Strychnos ignatii</i> P.J. Bergius <i>Strychnos lucida</i> R.Br. <i>Strychnos roborans</i> A.W.Hill	Nux-vomica	Seed	Strychnine	Banned
<i>Symphytum officinale</i> L. <i>Symphytum asperum</i> Lepech. <i>Symphytum</i> × <i>uplandicum</i> Nyman <i>Symphytum peregrinum</i> Ledeb.	Comfrey	Whole plant	Pyrrrolizidine alkaloids	Banned
<i>Veratrum viride</i> Aiton <i>Veratrum album</i> L. <i>Veratrum mengtzeanum</i> O.Loes. <i>Veratrum nigrum</i> L. <i>Veratrum stenophyllum</i> Diels <i>Veratrum maackii</i> Regel	American Hellebore, Indian Poke, Indian Hellebore, False Hellebore, Green False Hellebore, White Hellebore	Whole Plant	Veratrum alkaloids including veratramine, cyclopamine, cycloposine, jervine, and muldamine	Banned



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<i>Veratrum dahuricum</i> (Turcz.) O.Loos. <i>Veratrum grandiflorum</i> (Maxim. ex Miq.) O.Loos. <i>Veratrum taliense</i> O.Loos.				
<i>Vinca minor</i> L.	Periwinkle, Myrtle	Whole plant	Indole alkaloids: Vincamine, eburnamenine	Banned

[Information on the reasons and supporting references is available as a compendium of the negative list.]