

Global Reference List of Natural Complex Substances/Natural Flavouring Complexes

2019-05-22

Latin Name	English Name	FEMA	US FDA	COE
Abies alba Mill.	Silver fir		CFR.21 §172.510	COE2; COE4
Abies balsamea Mill	balsam fir	2114 (oil); 2115 (oleoresin)	CFR.21 §172.510	COE3
Abies sibirica Ledeb	Siberian pitch fir	2905 (needle oil)	CFR.21 §172.510	COE5
Abies spp.	Pine	2905 (needle oil)	CFR.21 §172.510	
Acacia catechu Willd	Catechu fir	2264 (extract); 2265 (powder)	CFR.21 §172.510	COE6
Acacia dealbata Link.	Silver wattle			COE522; COE572; COE2001; COE6000;
Acacia decurrens (W.) Willd.	Mimosa	2755 (absolute)	CFR.21 §172.510	COE7
Acacia farnesiana (L.) Willd.	Cassie	2260 (absolute)	CFR.21 §172.510	COE8
Acacia senegal (L.) Willd.	Arabic gum tree	2001 (acacia gum); 2519 (ghatti gum)	CFR.21 §184.1330; CFR.21 §184.1333	COE9
Acer negundo L.	Maple tree			COE10
Acer saccharum L.	Black sugar maple			COE11
Acer spicatum Lam.	Mountain maple	2757 (extract solid)	CFR.21 §172.510	COE2002
Achillea erbarotta (All.) Ssp. Moschata (Wulf.) IBK Richards	Musk milfoil			COE562; COE1200; COE2003;
Achillea millefolium L.	Milfoil	3117 (herb extract)	CFR.21 §172.510 (In beverages only; Finished beverage thujone free)	COE12
Achillea moschata Jacq.	Musk Yarrow		CFR.21 §172.510 (in alcoholic beverages only)	COE12A
Actinida chinensis Planch.	Kiwi			COE2004
Adiantum capillus-veneris L.	Venus hair		CFR.21 §172.510 (in alcoholic beverages only)	COE14
Agaricus bisporus	Mushroom	4487 (oil, distilled)		COE543; COE2005
Agathis australis hort. Ex. Lindl.	Kauri			COE2006
Agathosma betulina x crenulata	Round leaf buchu	2169 (leaves oil)		COE85c
Agave americana L.	American aloe			COE17
Agropyron repens (L.) Beauv.	Dog grass	2403 (extract)	CFR.21 §182.20	COE19
Ajuga chamaepitys (L.) Schreb.	Yellow bugle			COE20
Allium ascalonicum L.	Shallot			COE23
Allium cepa L.	Onion	2817 (oil)	CFR.21 §182.20	COE24
Allium porrum L.	Leek			COE25
Allium sativum L.	Garlic	2503 (oil)	CFR.21 §184.1317	COE26
Allium schoenoprasum L	Chive		CFR.21 §182.10	COE27
Aloe ferox Mill.	Cape aloe	2047 (concentrated juice from leaves)	CFR.21 §172.510	COE28A
Aloe vera L.	Aloe	2047 (extract)	CFR.21 §172.510	COE28
Alpinia galanga (L.) Willd.	Greater galanga	2498 (root); 2499 (root extracts); 2500 (root oil)	CFR.21 §172.510 (in alcoholic beverages only)	COE29
Alpinia officinarum Hance	Lesser galanga	2498 (root); 2499 (root extracts); 2500 (root oil)	CFR.21 §182.10; CFR.21 §182.20	COE30
Alpinia spp.	Galangal root	2498 (root); 2499 (root extract); 2500 (root oil)	CFR.21 §172.510	

Latin Name	English Name	FEMA	US FDA	COE
<i>Althaea officinalis</i> L.	Marsh mallow	2048 (althea root)	CFR.21 §172.510	COE31
<i>Althaea rosea</i> (L.) Cav.	Rose mallow			COE32
<i>Amomum granum paridisi</i>	Grains of paradise	2529 (grains of paradise)	CFR.21 §182.10	COE15
<i>Amygdalus communis</i> L.	Bitter almond	2046 (oil)	CFR.21 §182.20	COE366
<i>Amyris balsamifera</i> L.	West Indian sandalwood		CFR.21 §172.510	COE33
<i>Anacardium occidentale</i> L.	Cashew			COE34
<i>Anacyclus officinarum</i> Hayne	Pellitory of Germany			COE35
<i>Anacyclus pyrethrum</i> Lag.	Pellitory			COE2007
<i>Ananas comosus</i> (L.) Merrill	Pineapple			COE36
<i>Andrographis paniculata</i> Nees	Indian chiretta			COE37
<i>Anethum graveolens</i> L.	Dill	2382 (dill); 2383 (oil); 2384 (seed)	CFR.21 §172.510; CFR.21 §184.1282	COE42
<i>Angelica archangelica</i> L.	Angelica	2087 (root extract); 2088 (root oil); 2089 (seed extract); 2090 (seed oil); 2091 (stem oil)	CFR.21 §182.10; CFR.21 §182.20	COE56
<i>Angelica silvestris</i> L.	Wild angelica			COE43
<i>Aniba rosaeodora</i> Ducke var. <i>Amazonica</i> Ducke	Bois de rose	2156 (oil)	CFR.21 §182.20	COE44
<i>Annona cherimola</i> Mill.	Custard apple			COE46A; COE570; COE2008; COE4600;
<i>Annona muricata</i> L.	Corrosol			COE45
<i>Annona reticulata</i> L.	Bull's heart			COE47
<i>Annona squamosa</i> L.	Sugar apple			COE46
<i>Anthemis nobilis</i> L.	Camomile	2272 (english flower, oil); 2274 (roman flower extract); 2275 (roman flower oil)	CFR.21 §182.10; CFR.21 §182.20	COE48
<i>Anthoxantum odoratum</i> L.	Pig grass			COE49
<i>Anthriscus cerefolium</i> (L.) Hoffm.	Chervil	2279 (chervil)	CFR.21 §182.10; CFR.21 §182.20	COE50
<i>Anthyllis vulneraria</i> L.	Woundwort			COE51
<i>Apis Mellifera</i> L.	Beeswax	2126 (beeswax absolute)		COE553; COE1001; COEI (honey)
<i>Apium graveolens</i> L.	Celery	2268 (seed); 2269 (seed extract); 2270 (seed extract solid); 2271 (seed oil);	CFR.21 §182.10; CFR.21 §182.20	COE52; COE2009
<i>Arachis hypogaea</i> L.	Peanut		CFR.21 §182.40	COE54
<i>Arbutus unedo</i> L.	Strawberry tree			COE55
<i>Arctium majus</i> Bernh.	Great burdock			COE57
<i>Aristolochia serpentaria</i> L.	Serpentary		CFR.21 §172.510 (In alcoholic beverages only)	COE58; COE75
<i>Armoracia lapathifolia</i> Gilib. Ex Usteri	Horseradish		CFR.21 §182.10	COE145
<i>Arnica montana</i> L.	Arnica		CFR.21 §172.510 (In alcoholic beverages only)	COE59
<i>Artemisia abrotanum</i> L.	Southerwood			COE60
<i>Artemisia absinthium</i> L.	Wormwood herb	3114 (wormwood); 3115 (extract); 3116 (oil)	CFR.21 §172.510 (finished food thujone free)	COE61

Latin Name	English Name	FEMA	US FDA	COE
Artemisia dracunculus L.	Tarragon	2412 (estragon oil); 3043 (Tarragon)	CFR.21 §182.10; CFR.21 §182.20	COE64
Artemisia glacialis L.	Glacier wormwood			COE71A
Artemisia herba-alba Asso.	White wormwood			COE2011
Artemisia mutellina Vill.	Alpine wormwood,			COE68
Artemisia pallens Wall.	Davana	2359 (oil)	CFR.21 §172.510	COE69
Artemisia pontica L.	Pontique wormwood			COE70
Artemisia spicata Wulf.	Geneppi			COE66
Artemisia vallesiana Lam.	Mountain wormwood			COE71
Artemisia vulgaris L.	Common mugwort			COE72
Artocarpus incisa J. H. & G. Forster	Bread fruit tree			COE73
Asarum canadense L.	Canadian snakeroot	3023 (oil)	CFR.21 §172.510	COE74
Asarum europaeum L.	Hazelnut			COE76
Ascophyllum nodosum	Knotted wrack			COE2013
Asparagus officinalis L.	Garden asparagus			COE530; COE2010; COE2014
Asperula odorata L.	Woodruff		CFR.21 §172.510 (In alcoholic beverages only)	COE77; COE1003
Aspidosperma quebracho blanco Schlechtend	Quebracho	2972 (bark extract)	CFR.21 §172.510	COE78
Astragalus gummifer Lab. Tragacantha	Tragacantha shrub	3079 (gum)	CFR.21 §184.1351	COE79
Averrhoa bilimbi L.	Bilimbi			COE82
Averrhoa carambola L.	Starfruit			COE83
Bacharis gnistelloides Pers.	Carqueja (Spanish name)			COE495; COE2015;
Ballota nigra L.	Black hennetle			COE84
Balsamita suaveolens Desf.	Costmary		CFR.21 §172.510 (in alcoholic beverages only)	COE445
Barosma betulina Bartl & Wendl.	Buchu	2169 (leaves oil)	CFR.21 §172.510	COE85; COE85a (Agathosma betulina); COE85b (Barosma crenulata; Hook);
Berberis vulgaris L.	Barberry			COE86
Beta vulgaris	Beet	4229 (juice extract)		COE496; COE541; COE2016;
Betonica officinalis L.	Wood betony			COE87
Betula alba L.	Sweet birch			COE88
Betula lenta L.	Wintergreen	2154 (oil)		COE89
Bixa orellana L.	Anatto shrub	2103 (extract); 2104 (seed)		COE90
Boronia megastigma Nees	Boronia	2167 (flowers absolute)	CFR.21 §172.510	COE91
Boswellia spp.	Olibanum tree	2816 (essential oil)	CFR.21 §172.510	COE93
Brassica napus L.	Colewort			COE94
Brassica nigra (L.) Koch	Black mustard	2760 (Brassica Spp.)	CFR.21 §182.10; CFR.21 §182.20	COE95
Brassica oleracea L.	Wild cabbage			COE2018

Latin Name	English Name	FEMA	US FDA	COE
Brassica oleracea var botrytis L.	Cauliflower			COE2019
Bryonia alba L.	Bryonia, white or common		CFR.21 §172.510 (In alcoholic beverages only)	
Buddleia sp	Buddleia			COE2020
Bulnesia sarmienti Lor.	Guaiac	2531 (gum, extract); 2533 (wood, extract); 2534 (wood, oil)	CFR.21 §172.510	COE97; COE220
Bursera ssp. and Protium ssp.	Linaloe tree	2634 (wood oil)	CFR.21 §172.510	COE236
Caesalpinia echinata Lam.	Brazil wood;			COE98
Calamintha officinalis Moench.	Wild basil			COE99
Calendula officinalis L.	Marigold	2658 (flower oil)	CFR.21 §182.10	COE101
Calluna vulgaris (L.) Hull.	Common heather			COE102
Camellia thea Link	Tea bush	4812 (palmitoylated green tea extract catechins)	CFR.21 §182.20	COE451
Cananga odorata (Lam) Hook. & Thomson	Ylang-Ylang	2232 (cananga oil); 3119 (ylang ylang oil)	CFR.21 §182.20	COE103; COE103B
Canarium ssp.	Elemi	2407 (gum); 2408 (oil)	CFR.21 §172.510	COE104
Canella alba Murr.	White canella			COE105
Capparis spinosa L.	Caper bush		CFR.21 §182.10	COE106
Capsicum annum L.	Paprika	2233 (extract); 2234 (oleoresin); 2833 (paprika extract); 2834 (paprika oleoresin); 2849 (red pepper)	CFR.21 §182.10; CFR.21 §182.20	COE107
Capsicum frutescens L.	Cayenne pepper	2233 (extract); 2234 (oleoresin); 2266 (cayenne); 2849 (pepper, red);	CFR.21 §182.10; CFR.21 §182.20	COE108
Carica papaya L.	Papaw tree			COE109
Carthamus tinctorius L.	Safflower			COE110
Carum carvi L.	Caraway	2236 (caraway); 2238 (oil)	CFR.21 §182.10; CFR.21 §182.20	COE112
Carum copticum (L.) Benth & Hook	Ajowan			COE111
Carya illinoensis (Wangenh) K. Koch	Pecan nuts	4385 (shell flour)		COE523; COE560; COE1130; COE2021;
Cassia acutifolia Delisle	Senna		CFR.21 §172.510	COE114; COE114A; COE524; COE561; COE605; COE1140; COE2022
Cassia burmanii Weight	Indonesian cinnamon			COE497; COE2023;
Cassia fistula L.	Purging cassia			COE115
Castanea dentata (Marsh.) Borkh.	Chestnut		CFR.21 §172.510	COE2024
Cedrus atlantica (Endl.) Manetti ex Carr.	Moroccan cedarwood			COE2025
Cedrus deodora (D. Don) G. Don	Himalaya cedarwood			COE2026
Cedrus libani Barrel	Cedar of Lebanon			COE117
Centaurea centaurium L.	Large centaury			COE118
Centaurea cyanus L.	Cornflower			COE119
Centaurium umbellatum Gilib	Centaury		CFR.21 §172.510 (in alcoholic beverages only)	

Latin Name	English Name	FEMA	US FDA	COE
Ceratonia siliqua L.	Carob tree	2243 (carob bean extract); 2648 (locust gum)	CFR.21 §182.20; CFR.21 §184.1343	COE120
Cetraria islandica (L.) Acharius	Iceland moss		CFR.21 §172.510 (in alcoholic beverages only)	COE121
Chelidonium majus L.	Greater celandine			COE122
Chimaphila umbellata (L.) Nutt.	Ground ivy	2914 (pipsissewa leaves extract)	CFR.21 §182.20	COE124
Chondrus crispus (L.) Stackh.	Irish moss	2596 (extract)		COE125
Chrysanthemum morifolium	Chrysanthemum	4689 (extract)		
Chrysanthemum parthenium (L) Bernh.	Common pellitory	4837 (extract)		COE382
Cichorium intybus L. Pav. Ex Klotzsch.	Chicory	2280 (extract)	CFR.21 §182.20	COE127
Cinchona spp.	Yellow cinchona	2283 (bark); 2284 (bark extract); 2285 (extract);	CFR.21 §172.510 (In beverages only; not more than 83 ppm total cinchona alkaloids in finished beverages)	COE2027
Cinchona succirubra Pav.	Red cinchona	2281 (bark, red); 2282 (bark, red, extract); 2285 (extract)	CFR.21 §172.510 (In beverages only; not more than 83 ppm total cinchona alkaloids in finished beverages)	COE128
Cinnamomum burmannii Blume	Batavia cinnamon	2289 (cinnamon)	CFR.21 §182.10; CFR.21 §182.20	COE129
Cinnamomum camphora (L.) Nees & Eberm.	Camphor tree	2231 (camphor oil);	CFR.21 §172.510 (safrole free)	COE130; COE130a; COE130b
Cinnamomum cassia (L.) Blume	Cassia	2257 (bark extract); 2258 (bark oil); 2256 (cassia); 2259 (buds);	CFR.21 §182.10; CFR.21 §182.20	COE131
Cinnamomum glaucens	Cinnamon	2289 (cinnamon)		
Cinnamomum loureirii Nees	Cinnamon of Saigon	2289 (cinnamon)	CFR.21 §182.10; CFR.21 §182.20	COE132
Cinnamomum spp.	Cinnamon	2289 (cinnamon); 2290 (bark extract); 2291 (bark oil); 2292 (leaf oil)	CFR.21 §182.20	
Cinnamomum zeylanicum Blume	Cinnamon	2289 (cinnamon); 2292 (leaf oil)	CFR.21 §182.10; CFR.21 §182.20	COE133
Cistus spp.	Labdanum	2608 (absolute); 2609 (oil); 2610 (oleoresin);	CFR.21 §172.510	COE134
Citrullus lanatus (Thunberg) Mansfeld	Great water melon			COE135
Citrus aurantium ssp. amara var. pumilia	Myrtle-leaved orange tree	2318 (peel extract)	CFR.21 §182.20	COE138
Citrus aurantiifolia (Christm.) Swingle	Lime	2631 (essential oil, expressed); 2632 (oil, terpeneless); 2318 (peel extract); 4743 (Mexican lime oil, expressed); 4849 (terpenes)	CFR.21 §182.20	COE141

Latin Name	English Name	FEMA	US FDA	COE
Citrus aurantium L.	Bitter orange	2344 (curacao peel extract); 2345 (curacao peel oil); 2771 (neroli bigarde oil); 2819 (orange flowers); 2820 (orange leaf absolute); 2823 (orange peel oil, bitter); 2818 (orange flowers absolute); 2855 (petitgrain paraguay oil); 2318 (citrus peel oil); 48	CFR.21 §182.20	COE136; COE136A; COE136B; COE136C
Citrus aurantium L. subspecies cyathifera Y	Daidai	3823 (peel oil); essential oil; 2318 (peel extract)	CFR.21 §182.20	
Citrus bergamia (Risso & Poiteau)	Bergamot	2153 (essential oil of rind); 2318 (peel extract)	CFR.21 §182.20	COE137
Citrus clementina Hort. ex Tanaka	Algerian clementine	4855 (oil)		COE2031a
Citrus depressa	Sikuwasya	4859 (oil)		
Citrus hassaku hort. ex Tanaka	Hassaku	4858 (oil)		
Citrus iyo	Iyokan	4857 (oil)		
Citrus japonica Thun	Kumquat			COE2032
Citrus junos Sieb ex Tanaka	Yuzu	2318 (peel extract); 4862 (oil)	CFR.21 §182.20	
Citrus latifolia	Tahiti lime	2318 (peel extract); 4744 (Persian lime oil, expressed); 4849 (terpenes)		
Citrus limon (L.) Burm. f.	Lemon tree	2318 (peel extract); 2623 (extract); 2625 (oil); 2626 (oil terpeneless); 2853 (lemon petitgrain oil); 4848 (terpenes); 4852 (essence oil)	CFR.21 §182.20	COE139; COE139A; COE139B; COE525; COE1410; COE2034;
Citrus maxima (J. Burman) Merr.	Pummelo	2318 (peel extract); 2530 (oil)	CFR.21 §182.20	COE140; COE2037
Citrus medica L.	citron tree	4849 (terpenes)		COE2035
Citrus medicus L. var. Sarcodactylus swingle	Sarcodactylis	2318 (peel extract); 3899 (oil)		
Citrus microcarpa Bunge	Calamondin	2318 (peel extract)	CFR.21 §182.20	COE498; COE2036 (deleted)
Citrus natsudaïdai	Natsumikan	4860 (oil)		
Citrus paradisi Macfad.	Grapefruit	2318 (peel extract); 2530 (oil); 2769 (naringin extract); 4846 (essence oil); 4847 (oil, terpeneless); 4851 (terpenes)	CFR.21 §182.20	
Citrus reticulata Blanco	Mandarin	2318 (peel extract); 2657 (mandarin oil, expressed); 2854 (Petitgrain mandarin oil); 3041 (oil)	CFR.21 §182.20	COE142; COE2039
Citrus reticulata Blanco 'Ponkan'	Ponkan	4865 (oil)		
Citrus reticulata Blanco var. unshiu (Marco.) H.H.Hu	Satsuma mandarine	2318 (peel extract)		COE604; COE2031;

Latin Name	English Name	FEMA	US FDA	COE
Citrus sinensis (L.) Osbeck;	Sweet orange	2821 (orange distilled oil); 2822 (orange oil terpeneless); 2824 (orange peel extract); 2825 (orange cold pressed oil); 2826 (orange peel oil, terpeneless); 2318 (peel extract); 4850 (terpenes); 4856 (Blood orange oil); 4866 (essence water phase)	CFR.21 §182.20	COE143
Citrus sphaerocarpa	Kabosu	4864 (oil)		
Citrus spp.	Citrus	2318 (peel extract)	CFR.21 §182.20	
Citrus sudachi hort. ex Shirai	Sudachi	4863 (oil)		
Citrus unshiu Marcovitch	Mikan	4861 (oil)		
Citrus x meyeri	Meyer lemon oil, cold pressed	4770 (oil, cold pressed)		
Citrus x tangelo	Tangelo	4854 (oil)		
Clinopodium vulgare L.	Wild basil			COE526; COE2040; COE3700;
Coccus cacti L.	Carmine	2242 (Carmine); 2330 (Cochineal)		
Cocos nucifera L.	Coconut			COE147
Coffea canephora Pierre ex Froehner	Coffee			COE148A
Coffea spp.	Coffee		CFR.21 §182.20	COE148
Cola acuminata Schott. et Endl.	Kola	2607 (nut extract)	CFR.21 §182.20	COE149; COE 2041
Commiphora spp.	Myrrh	2765 (gum); 2766 (oil);	CFR.21 §172.510	COE150
Convolvulus scoparius L.	Rose wood			COE152
Copaifera officinalis (Jacq.) L.	Copaiba		CFR.21 §172.510	COE499; COE2043;
Coptis teeta Wall.	Gold thread			COE153
Cordyceps sinensis		4878 (fermentation product)		
Coriandrum sativum L.	Coriander	2333 (coriander); 2334 (oil)	CFR.21 §182.10; CFR.21 §182.20	COE154
Corylus avellana L.	Hazelnut tree			COE155
Crataegus oxyacantha L.	Hawthorn			COE156
Crocus sativus L.	Saffron	2998 (saffron); 2999 (extract)	CFR.21 §182.10; CFR.21 §182.20	COE157
Croton spp.	Cascarilla tree	2254 (bark extract); 2255 (bark oil)	CFR.21 §182.20	COE158
Cryptocarya massoio	Massoia	3747 (bark oil)		COE500; COE2029; COE2044;
Cucumis melo L.	Sweet melon			COE159
Cucumis sativus L.	Cucumber			COE160
Cuminum cyminum L.	Cumin	2340 (seed); 2343 (seed oil)	CFR.21 §182.10; CFR.21 §182.20	COE161
Cupressus sempervirens L.	Cypress			COE162
Curcuma longa L.	Turmeric	3085 (powder); 3086 (extract); 3087 (oleoresin);	CFR.21 §182.10; CFR.21 §182.20	COE163

Latin Name	English Name	FEMA	US FDA	COE
Curcuma zedoaria Rosc.	Zedoary	3122 (zedoary); 3123 (bark extract)	CFR.21 §182.10; CFR.21 §182.20	COE164
Cyamopsis tetragonoloba (L.) Taub.	Guar	2537 (gum)	CFR.21 §184.1339	COE166 (deleted)
Cydonia spp.	Quince	2974 (extract of seeds)	CFR.21 §182.40	COE167
Cymbopogon citratus Stapf. A.P. Decandolle	West Indian Lemongrass	2624 (oil)	CFR.21 §182.20	COE38
Cymbopogon flexuosus (Nees ex Steud.) W. Wats.	Lemongrass, east indian	2624 (oil)	CFR.21 §182.20	COE2045
Cymbopogon martinii (Roxb) W. Wats. Var motia	Palmarosa	2831 (oil)	CFR.21 §182.20	COE40; COE2046
Cymbopogon nardus Rendle	Citronella	2308 (oil)	CFR.21 §182.20	COE39; COE2046A
Cynara cardunculus L.	Cardoon			COE168
Cynara scolymus L.	Artichoke		CFR.21 §172.510 (in alcoholic beverages only)	COE168A; COE565; COE1680; COE2047;
Cyphomandra betaceae (Chv.) Sendt	Tomato tree			COE169
Cytisus scoparius Link.	Common broom			COE170
Daemonorops draco Blume	Dragon	2404 (extract)	CFR.21 §172.510	COE100; COE531; COE2048;
Daucus carota L.	Carrot	2244 (seed oil)	CFR.21 §182.20	COE173; COE173a
Decalepis hamiltonii	Swallowroot	4283 (extract)		
Dianthus caryophyllus L.	Carnation			COE174
Dictamnus albus L.	White dittany		CFR.21 §172.510 (in alcoholic beverages only)	COE175
Dicypellium caryophyllatum Nees	Clove bark			COE176
Diospyros kaki Thunb.	Kaki			COE177
Dipterix odorata (Aublet) Will.	Tonquin bean			COE178
Dipterocarpus spp.	Gurjun			COE2049
Eleagnus umbellata Thunb.	Autumn olive			COE505; COE2053;
Eleagnus angustifolia L.	Oleaster			COE501; COE2050
Eleagnus commutata Bernh. Ex Rubd.	Silverberry			COE502; COE2051;
Eleagnus multiflora Thunb	Goumi			COE503
Eleagnus multiflora Thunb var multiflora	Goumi			COE504; COE2052;
Elettaria cardamomum (L.) Maton	Cardamom	2240 (cardamom); 2241 (seed oil)	CFR.21 §182.10; CFR.21 §182.20	COE180
Erica cinerea L.	Bell heather			COE102A; COE559; COE1020; COE2054;
Erigeron canadensis L.	Erigeron	2409 (oil)	CFR.21 §172.510	COE181
Eriodictyon californicum Hook. & Arn. Torr.	Santa herb	3118 (fluid extract)	CFR.21 §172.510	COE182
Erythraea centaurium Pers.	Small centaury			COE183
Erythroxyllum coca Lam.	Coca	2329 (leaf extract, decocainized)	CFR.21 §182.20	COE184
Eucalyptus citriodora Hook.	Eucalyptus citriodora			COE186
Eucalyptus diversicolor F. v. Muell.	Karri			COE2055
Eucalyptus globulus Labill.	Eucalyptus	2466 (oil)	CFR.21 §172.510	COE185
Eucalyptus occidentalis Endl.	Flat topped yate			COE2056
Eugenia caryophyllus (C. Spreng.) Bull. ex. Harr.	Clove tree	2325 (leaf oil)	CFR.21 §184.1257	COE188
Eugenia jambolana Lam.	Jambul			COE442

Latin Name	English Name	FEMA	US FDA	COE
<i>Eugenia malaccensis</i> L.	Malay apple			COE189
<i>Eugenia</i> spp.	Clove bud	2322 (bud extract); 2323 (bud oil); 2324 (bud oleoresin); 2327 (cloves); 2328 (stem oil);	CFR.21 §182.20; CFR.21 §184.1257; CFR.21 §182.10; CFR.21 §184.1257	
<i>Eugenia uniflora</i> L.	Brazilian cherry			COE190
<i>Eupatoria triplinerve</i> Vahl.	White snakeroot			COE191
<i>Euphrasia officinalis</i> L.	Eyebright			COE192
<i>Euryganium sumbul</i>	Sumbul			COE193
<i>Euterpe oleracea</i>	Acai berry	4547 (berry extract)		
<i>Evernia prunastri</i> (L.) Ach.	Oak moss	2795 (absolute)	CFR.21 §172.510 (finished food thujone free)	COE194; COE2057
<i>Ferula asa-foetida</i> L.	Asafoetida	2106 (fluid extract); 2107 (gum); 2108 (oil);	CFR.21 §182.20	COE196
<i>Ferula ceratophylla</i> Regel et Schmal.	Galbanum			COE2060
<i>Ferula galbaniflua</i> Boiss. et Buhse	Galbanum	2501 (oil); 2502 (resin)	CFR.21 §172.510	COE197
<i>Ferula rubricalis</i> Boiss.	Gum called asafoetida			COE2061
<i>Ficus carica</i> L.	Fig tree			COE198
<i>Foeniculum vulgare</i> Mill	Common Fennel	2481 (extract)	CFR.21 §182.10	
<i>Foeniculum vulgare</i> Mill. ssp. <i>vulgare</i> Mill, var. <i>dulce</i> (Mill.) Thellung	Sweet fennel	2482 (sweet fennel); 2483 (oil)	CFR.21 §182.10; CFR.21 §182.20	COE200
<i>Foeniculum vulgare</i> Mill, ssp. <i>piperitum</i> (Ucria) Countinho	Bitter fennel			COE201; COE201A
<i>Fomes officinalis</i> (Vill. Fr.) Ames	Larch agaric			COE527; COE2061A; COE2069;
<i>Fragaria vesca</i> L.	Wild strawberry			COE203
<i>Fragaria virginiana</i>	Strawberry			COE202
<i>Fraxinus excelsior</i> L.	Common ash			COE204
<i>Fucus vesiculosus</i> L.	Bladder wrack			COE206
<i>Fumaria officinalis</i> L.	Fumitory			COE207
<i>Galeopsis ochroleuca</i> Lam.	Hollow tooth herb			COE208
<i>Galipea officinalis</i> Hancock	Angostura	2092 (extract)	CFR.21 §182.10; CFR.21 §182.20	COE165
<i>Gallus gallus</i> var. <i>domesticus</i>	Egg			COEIII (egg)
<i>Garcinia mangostana</i> L.	Mangosteen tree	4757 (distillate)		COE209
<i>Gardenia augusta</i> Merr.	Gardenia			COE210
<i>Gardenia gummifera</i> L.	Gardenia gummifera	4265 (distillate)		
<i>Gaultheria procumbens</i> L.	Wintergreen	3112 (extract); 3113 (oil)		COE211
<i>Gelidium</i> ssp <i>Euchama</i> <i>Euchama</i> J. A.G.	Agar-agar	2012 (agar)	CFR.21 §184.1115 (in certain foods with limits)	COE212 (deleted)
<i>Gentiana acaulis</i> L.	Dwarf gentian		CFR.21 §172.510 (in alcoholic beverages only)	COE213
<i>Gentiana lutea</i> L.	Gentian	2506 (root extract)	CFR.21 §172.510	COE214
<i>Glechoma hederacea</i> L.	Ivy			COE216

Latin Name	English Name	FEMA	US FDA	COE
Glycine max (L.) Merr.	Soya; Soya bean			COE217
Glycyrrhiza glabra L.	Licorice	2628 (licorice extract) 2528 (glycyrrhizin ammoniated); 2629 (extract); 2630 (root)	CFR.21 §184.1408	COE218
Gnaphallium dioicum L.	Cat's foot			COE219
Haematoxylon campechianum L.	Peach wood			COE221
Hamamelis virginiana L.	Winter bloom			COE222
Hedeoma pulegioides L. Pers.	Pennyroyal		CFR.21 §172.510	COE223
Hedychium flavum	Longose			COE224
Helianthus annuus L.	Sunflower			COE2063
Helichrysum arenarium Moench.	Everlasting flower			COE225
Helichrysum augustifolium DC.	Immortelle	2592 (extract)	CFR.21 §182.20	
Heliopsis longipes S.F. Blake	Chilcaun; Gold root	4220 (extract)		
Herniaria glabra L.	Rupturewort			COE227
Hibiscus abelmoschus L.	Ambrette	2050 (seed absolute); 2051 (seed oil); 2052 (tincture)	CFR.21 §182.10; CFR.21 §182.20	COE1
Hibiscus esculentus L.	Ladies' Fingers plant			COE228
Hibiscus sabdariffa L.	Roselle		CFR.21 §172.510 (in alcoholic beverages only)	COE229
Hierochloe odorata (L.) Beauv.	Holy grass			COE230
Hippophae rhamnoides L.	Sea buckthorn			COE231
Hordeum vulgare L.	Barley			COE232
Humulus lupulus L.	Hops	2578 (extract); 2579 (extract solid); 2580 (oil)	CFR.21 §182.20	COE233
Hyacinthus orientalis L.	Hyacinth flowers		CFR.21 §172.510	
Hydrangea macrophylla	Amacha	4737 (leaves extract)		
Hypericum perforatum L.	St. John's wort		CFR.21 §172.510 (HyPericin-free alcohol distillate form only; In alcoholic beverages only)	COE234
Hyssopus officinalis L.	Hyssop	2589 (Hyssop); 2590 (extract); 2591 (oil);	CFR.21 §182.10; CFR.21 §182.20	COE235
Ilex paraguariensis St. Hilaire	Mate		CFR.21 §182.20	COE237
Illicium verum Hook F.	Star anise	2095 (star anise); 2096 (oil)	CFR.21 §182.10	COE238
Indigofera tinctoria L.	True indigo			COE532; COE2064;
Inula dysenterica	Common fleabane			COE239
Inula helenium L.	Elecampane		CFR.21 §172.510 (in alcoholic beverages only)	COE240
Iris florentina L.	Orris	2829 (concrete liquid oil); 2830 (root extract)	CFR.21 §172.510	COE241
Iris foetidissima L.	Stinking iris gladdon			COE242
Iris germanica L.	German flag		CFR.21 §172.510	COE243
Iris pallida Lam.	Pale flag		CFR.21 §172.510	COE244

Latin Name	English Name	FEMA	US FDA	COE
Jasminum grandiflorum L.	Jasmine	2598 (absolute); 2599(concrete) 2600(oil) 2601(spiritus)	CFR.21 §182.20	COE245
Jasminum officinale L.	White jasmine		CFR.21 §182.20	COE246
Jateorhiza palmata (Lam.) Miers	Colombo		CFR.21 §172.510 (In alcoholic beverages only)	COE247
Juglans spp.	Walnut tree	3111 (hull, leaf or shell extract)	CFR.21 §172.510	COE248
Juglans virginiana	American walnut			COE507; COE2065
Juniperus communis L.	Juniper	2602 (berries); 2603 (extract); 2604 (oil);	CFR.21 §182.20	COE249
Juniperus mexicana Spreng	Texas cedarwood			COE2066
Juniperus oxycedrus L.	Cade			COE250
Juniperus procera Hochst. Hochstter ex Endl.	Cedarwood east african			COE251
Juniperus sabina L.	Savin			COE2067
Juniperus virginiana L.	Red cedar			COE252
Krameria triandra Ruiz. &Pav.	Rhatany	2979 (extract)	CFR.21 §172.510	COE253
Laminaria and Kereocystis spp.	Sea tangle	2606 (kelp); 2014 (algin)	CFR.21 §184.1120	COE533; COE2068 (Laminiaria digitata); COE534; COE2070;
Larix decidua Mill.	Common larch			COE254
Larrea mexicana Moric.	Creosote bush			COE254
Laurus nobilis L.	Bay laurel	2124 (sweet bay leaves); 2125 (sweet bay leaves oil); 2612 (laurel berries); 2613 (sweet bay leaves extract);	CFR.21 §182.10; CFR.21 §182.20	COE255
Lavandula hybrida	Lavandin	2618 (oil)	CFR.21 §182.20	COE2071
Lavandula latifolia (L.f.) Medicus	Spike lavender	3033 (oil)	CFR.21 §182.20	COE256
Lavandula officinalis Craix	Lavender	2619 (lavender); 2620 (absolute); 2621 (concrete); 2622 (oil);	CFR.21 §182.10; CFR.21 §182.20	COE257
Lavandula stoechas L.	Roman Lavender		CFR.21 §182.10	COE258
Lawsonia alba Lam.	Henna			COE259
Leptospermum citratum Forst	Tea-tree			COE260
Levisticum officinale Koch.	Lovage	2649 (lovage); 2650 (extract); 2651 (oil);	CFR.21 §172.510	COE261
Liatris odoratissima Willd.	Deertongue			COE262
Ligusticum mutellina (L.) Crantz	Mountain lovage			COE2074C
Linum usitatissimum L.	Linseed			COE263
Lippia citriodora Kunth.	Lemon verbena		CFR.21 §172.510 (in alcoholic beverages only)	COE264
Liquidambar styraciflua L.	Storax	3036 (Storax); 3037 (extract)	CFR.21 §172.510	COE265
Litchi chinensis Radl.	Litchi			COE304
Litsea cubeba Pers.	Litsea cubeba	3846 (oil)		COE491
Lobaria pulmonaria (L.) Hoffm.	Lungwort lichen		CFR.21 §172.510	COE438
Lonicera caprifolium L.	Honeysuckle			COE266
Lonicera japonica	Honeysuckle	4690 (extract)		
Lycopersicum esculentum Mill.	Tomato			COE267

Latin Name	English Name	FEMA	US FDA	COE
Macrocystis pyrifera	Giant kelp			COE2072
Majorana hortensis Moench.	Marjoram	2659 (oleoresin); 2661 (seed); 2662 (sweet marjoram); 2663 (oil) ;	CFR.21 §182.10; CFR.21 §182.20	COE316
Mallotus philipensis (Lam.) Muell. Arg.	Kamala tree			COE535; COE2073;
Malus Sylvestris Mill. Var. Domestica (Borkhausen) Mansfeld	Apple tree			COE386
Malva silvestris L.	Mallow			COE268
Mammea americana L.	Mammee tree			COE269
Mangifera indica L.	Mango tree			COE270
Manilkara zapota (L.) Royen	Sapodilla plum			COE423
Marrubium vulgare L.	White hoarhound	2581 (extract)	CFR.21 §182.10; CFR.21 §182.20	COE271
Marsdenia condurango Rehb.	Kondurango			COE272
Matricaria chamomilla L.	Camomile	2273 (flower oil)	CFR.21 §182.10; CFR.21 §182.20	COE273
Medicago sativa L.	Alfalfa	2013 (extract)	CFR.21 §182.10; CFR.21 §182.20	COE274
Melaleuca alternifolia Cheel.	Tea tree	3902 (oil)		COE275
Melaleuca leucadendron (L.) L.	Cajuput	2225 (oil)	CFR.21 §172.510	COE276
Melaleuca linariifolia Smith	Tea-tree			COE277
Melilotus coerulea Des.	Sweet trefoil			COE278
Melilotus officinalis (L.) Lam.	Melilot	4727 (herb distillate)		COE279
Melissa officinalis L.	Melissa balm	2111 (balm); 2112 (balm leaves extract); 2113 (balm oil)	CFR.21 §182.10; CFR.21 §182.20	COE280
Melittis melissophyllum L.	Bastard balm			COE281
Mentha aquatica L.	Watermint	4873 (extract)		
Mentha arvensis L.	Cornmint	4219 (oil)		COE492; COE508; COE2074;
Mentha cardiaca (SF Gray) gerarde ex baker	Scotch spearmint	4221 (spearmint oil, scotch); 4811 (ginger mint oil)		COE285b
Mentha piperita L.	Peppermint	2847 (leaves); 2848 (oil)	CFR.21 §182.10; CFR.21 §182.20	COE282; COE509; COE2074a
Mentha pulegium L.	Pennyroyal	2839 (oil)	CFR.21 §172.510	COE283
Mentha silvestris L.	Horsemint	2582 (leaves extract); 4756 (oil)		COE284 (Mentha silvestris); COE284b (Mentha longifolia var. crispa); COE284a (Mentha longifolia var.
Mentha spicaria var. crispa	Curly mint	4778 (curly mint oil)		
Mentha spicata L.	Crisped mint; Erospicata	3030 (spearmint); 3031 (extract); 3032 (oil); 4777 (erospicata oil)	CFR.21 §182.10; CFR.21 §182.20	COE285
Mentha viridis L.	Spearmint	3030 (spearmint); 3031 (extract); 3032 (oil)	CFR.21 §182.20	COE286

Latin Name	English Name	FEMA	US FDA	COE
Menyanthes trifoliata L.	Buckbean		CFR.21 §172.510 (In alcoholic beverages only)	COE287
Mespilus germanica L.	Medlar tree			COE288
Meum athamanticum Jacq.	Bladmoney			COE510; COE2075
Michelia alba	Ginkoboku	3950 (oil)		
Michelia champaca L.	Champac			COE289
Monarda punctata L.	American horsemint	2582 (leaves extract)	CFR.21 §182.20	COE290
Monarda spp. L.	Horsemint	2582 (leaves extract)		
Monodora myristica Dun.	Jamaica nutmeg			COE291
Morus alba L.	Mulberry tree, white and black			COE292; COE292a
Morus indica L.	Eastern mulberry			COE293
Moschus moschiferus L.	Musk	2759 (musk tonquin)	CFR.21 §182.50	COE556 (deleted); COE1004 (deleted); COEIV (Musk)
Murraya koenigii (L.) Spreng.	Indian curry leaf tree			COE520; COE2076
Musa species	Banana			COE294
Myosotis palustris Lam.	Forget-me-not			COE295
Myrica gale L.	sweet gale			COE549; COE2077;
Myrica pennsylvanica Loisel.	Bayberry			COE2078
Myristica fragrans Houtt.	Mace	2652 (mace); 2653 (mace oil); 2654 (mace oleoresin); 2792 (nutmeg); 2793 (nutmeg oil)	CFR.21 §182.10; CFR.21 §182.20	COE296
Myroxylon balsanum (L.) Harms	Tolu balsam	3069 (extract); 3070 (gum)	CFR.21 §172.510	COE297
Myroxylon balsanum (L.) Harms, var. pereirae (Royle) Harms.	Peru balsam	2116 (balsam); 2117 (oil)	CFR.21 §182.20	COE298
Myrrhis odorata (L.) Scop.	Sweet chervil			COE299
Myrtus communis L.	Myrtle		CFR.21 §172.510 (in alcoholic beverages only)	COE300
Narcissus jonquilla L.	Daffodil			COE2079
Narcissus poeticus L.	Narcissus			COE2080
Narcissus tazetta L.	Cream narcissus			COE2081
Nardostachys jatamansi (D. Don) DC	Spikenard			COE2082
Nasturtium officinale L.	Watercress			COE301
Nepeta cataria L.	Catmint			COE302
Nephelium lappaceum L.	Ramboutan			COE303
Nephelium longanum Cambess	Longane			COE305
Nicotiana tabacum L.	Common tobacco			COE512; COE2083;
Nigella damascena L.	Love-in-a-mist			COE306
Nigella sativa L.	Black caraway	2342 (black cumin); 2237 (caraway)	CFR.21 §182.10	COE307
Ocotea pretiosa (Nees.) Mez.	Brasilian sassafras			COE2084
Ocimum basilicum L.	Basil	2118 (basil); 2119 (oil); 2120 (oleoresin)	CFR.21 §182.10; CFR.21 §182.20	COE308
Olea europaea L.	Olive tree	4801 (olive fruit extract)		COE309

Latin Name	English Name	FEMA	US FDA	COE
Oleanthus gamwelliae	Nindi			COE310
Onicus benedictus L.	Holy thistle		CFR.21 §172.510 (In alcoholic beverages only)	COE144
Ononis arvensis L.	Common restharrow			COE311
Opopanax chironium Koch.	Opopanax		CFR.21 §172.510	COE313; COE2042
Origanum creticum L.	Spanish marjoram			COE314
Origanum dictamnus L.	Dittany of Crete	2399 (dittany of crete)	CFR.21 §172.510	COE315
Origanum vulgare L.	Wild marjoram	2660 (marjoram pot)	CFR.21 §182.10	COE317
Ormensis multicaulis	Chamomille, wild Morrocco			COE2085
Osmanthus fragrans Lour.	Osmanthus	3750 (absolute)		COE513; COE521; COE2086;
Panax quinquefolius L.	American ginseng			COE2087a
Pandanus latifolius Hassk.	Pandanus			COE2088
Papaver rhoeas L.	Red poppy			COE319
Papaver somniferum L.	White poppy	2919 (seed)	CFR.21 §182.10	COE320
Passiflora edulis Sims.	Passion flower		CFR.21 §172.510	COE321; COE2809
Pastinaca sativa L.	Parsnip			COE322
Paullinia cupana H.B. &K.	Guarana shrub	2536 (gum)	CFR.21 §172.510	COE323
Pedilanthus spp.	Candelilla	3479 (wax from stem and branches)	CFR.21 §184.1976	COE490
Pelargonium l'H	Rose geranium	2508 (oil)	CFR.21 §182.20	COE324
Perilla frutescens (L.) Britt	Perilla	4013 (leaf oil)		COE514; COE2090
Persea americana Mill.	Avocado			COE325
Persicaria odorata	Vietnamese cilantro	4736 (oil)		
Petroselinum spp.	Parsley	2835 (parsley); 2836 (oil); 2837 (oleoresin)	CFR.21 §182.10; CFR.21 §182.20	COE326
Peucedanum ostruthium Koch.	Imperatoria		CFR.21 §172.510	COE327
Peumus boldus Molina	Boldo tree		CFR.21 §172.510 (In alcoholic beverages only)	COE328
Phaseolus mungo L.	Mung bean			COE537; COE2058;
Phaseolus vulgaris L.	Common bean			COE538; COE2059;
Phoenix dactylifera L.	Date palm			COE329
Physalis alkekengi L.	Strawberry tomato			COE528; COE567; COE2091; COE3290;
Physalis peruviana L.	Cape gooseberry			COE330
Physeter macrocephalus L.	Ambergris	2049 (tincture)	CFR.21 §182.50	COE557; COE1005; COEV (ambergris)
Picea excelsa Link.	Blue pine			COE331
Picea mariana	Black spruce	3034 (oil)	CFR.21 §172.510	
Picramnia antidesma Sw.	West Indian cascara			COE333
Pimenta officinalis Lindl.	Allspice	2017 (allspice); 2018 (oil); 2019 (oleoresin); 2901 (pimenta leaf oil)	CFR.21 §182.10; CFR.21 §182.20	COE335
Pimenta racemosa (Mill.) J.W. Moore	Bay	2121 (extract); 2122 (oil); 2123 (oleoresin);	CFR.21 §182.20	COE334

Latin Name	English Name	FEMA	US FDA	COE
Pimpinella anisum L.	Anise	2093 (anise); 2094 (oil)	CFR.21 §182.10; CFR.21 §182.20	COE336
Pimpinella saxifraga L.	Burnet-saxifrage			COE337
Pinus laricio Poir.	Black pine			COE338
Pinus mugo Turra	Mountain pine	2904 (needle oil)	CFR.21 §172.510	COE339
Pinus silvestris L.	Pine	2906 (oil)	CFR.21 §172.510	COE341
Pinus spp.	Turpentine	2907 (oil); 3088 (gum); 3089 (steam distilled)	CFR.21 §172.510 (Rosin, Colophony: in alcoholic beverages only. No limitations for oils); CFR.21 §172.515	COE340
Pinus strobus L.	White pine		CFR.21 §172.510 (In alcoholic beverages only)	COE342
Pinus succinifera Conev.	Baltic amber			COE343
Piper angustifolium Ruiz. & Pav.	Matico			COE344
Piper cubeba L.f.	Cubeb	2338 (cubeb); 2339 (oil)	CFR.21 §172.510	COE345
Piper longum L.	Long peper	4266 (distillate)		COE346
Piper nigrum L.	Black pepper	2844 (black pepper); 2845 (black pepper oil); 2846 (black pepper oleoresin); 2850 (white pepper oil); 2851 (white pepper oil); 2852 (white pepper oleoresin);	CFR.21 §182.10; CFR.21 §182.20	COE347
Pistacia lentiscus L.	Mastic tree			COE349
Pistacia terebinthus L.	Turpentine			COE350
Pistacia vera L.	Pistachio			COE351
Plantago lanceolata L.	Small plantain			COE352
Pogostemon cablin (Blanco) Benth.	Patchouly	2838 (oil)	CFR.21 §172.510	COE353
Polianthes tuberosa L.	Tuberose	3084 (oil)	CFR.21 §182.20	COE354
Polygala senega L.	Senega root			COE355
Polygonum aviculare L.	Knotweed			COE515; COE2093
Polygonum bistorta L.s.l.	Bistort			COE356
Polygonum dumetorum L.	Desert-knot grass			COE357
Polyporus officinalis Fries	White agaric			COE359
Populus alba L.	White poplar			COE360
Populus nigra L.	Black poplar		CFR.21 §172.510 (in alcoholic beverages only)	COE361
Potentilla tormentilla Stokes	Tormentil			COE493
Prangos asperula Boiss.	Hay			COE363
Primula elatior L.	Cowslip			COE364; COE2095
Prosopis chilensis	Mesquite	3942 (wood extract)		
Prunella vulgaris L.	Self-heal			COE365
Prunus amygdalus Batsch. V. dulcis	Sweet almond tree	2046 (oil)		COE367
Prunus armeniaca L.	Apricot	2105 (apricot kernel, persic oil)	CFR.21 §182.20; CFR.21 §182.40	COE368

Latin Name	English Name	FEMA	US FDA	COE
Prunus avium L.	Cherry	2278 (pits)	CFR.21 §172.510 (not to exceed 25 ppm Prussic acid)	COE369
Prunus cerasus L.	Sour cherry	2278 (pits extract)	CFR.21 §172.510 (not to exceed 25 ppm Prussic acid)☒	COE370
Prunus domestica L.	Plum			COE371
Prunus insititia L.	Damson			COE373
Prunus laurocerasus L.	Cherry laurel	2277 (oil)	CFR.21 §172.510 (not to exceed 25 ppm Prussic acid)	COE372
Prunus persica (L.) Batsch. Var. Persica	Peach		CFR.21 §172.510 (In alcoholic beverages only; not to exceed 25 ppm Prussic acid in the flavour); CFR.21 §182.20; CFR.21 §182.40 (persic oil)	COE374
Prunus serotina Ehrhardt	Wild cherry	2276 (bark extract)	CFR.21 §182.20	COE375
Prunus spinosa L.	Sloe	3020 (sloe berries) 3021 (berries extract) 3022 (berries solid extract)	CFR.21 §182.20	COE376
Psalliota hortensis	mushroom			COE2097
Psidium guajava L.	Guava		CFR.21 §182.20	COE377
Pterocarpus santalinus L.f.	Red sandalwood tree		CFR.21 §172.510 (in alcoholic beverages only)	COE379
Pulmonaria officinalis L.	Lungwort			COE380
Punica granatum L.	Pomegranate tree	2918 (bark extract)	CFR.21 §182.20	COE381
Pyrus communis L.	Pear tree			COE384
Pyrus Domestica Gaernt.	Whitty pear			COE385
Quassia amara L.	Quassia	2971 (extract)	CFR.21 §172.510	COE332; COE2092
Quercus alba L.	White oak	2794 (chips extract)	CFR.21 §172.510	COE388
Quercus ilex L.	Holm oak			COE389
Quercus robur L.	Common red oak		CFR.21 §172.510 (in alcoholic beverages only)	COE390
Quercus spp.	Tannic acid	3042 (tannic acids)	CFR.21 §184.1097 (in certain foods with limits)	
Quercus suber L.	Oak cork		CFR.21 §172.510 (in alcoholic beverages only)	
Quillaja saponaria Molina	Soap bark tree	2973 (extract)	CFR.21 §172.510	COE391
Raphanus sativus L.	Winter radish			COE392
Rhamnus cathartica L.	Buckthorn			COE393
Rhamnus frangula L.	Alder buckthorn			COE394
Rhamnus purshiana DC	Cascara sagrada	2253 (bitterless extract)	CFR.21 §172.510	COE395
Rheum hybridum	Rhubarb		CFR.21 §172.510	

Latin Name	English Name	FEMA	US FDA	COE
Rheum officinale Baill.	Medicinal rhubarb		CFR.21 §172.510	COE396A; COE569; COE2098; COE3960;
Rheum palmatum L.	Chinese rhubarb		CFR.21 §172.510	COE396
Rheum rhaponticum L.	Garden rhubarb		CFR.21 §172.510 (in alcoholic beverages only)	COE397
Rhodymenia palmata (L.) Grev.	Dulse	2405 (dulse)	CFR.21 §182.30	
Ribes nigrum L.	Blackcurrant	2346 (buds absolute)	CFR.21 §172.510	COE399
Ribes rubrum L.	Currant berry			COE400
Ribes uva-crispa L. var. sativum D.C.	Gooseberry			COE398
Ricinus communis L.	Castor oil	2263 (castor oil)	CFR.21 §172.510	COE401 (deleted)
Roccella fuciformis Arch. R. tinctoria	Angola weed		CFR.21 §172.510 (in alcoholic beverages only)	
Rosa canina L.	Wild dog rose	2990 (extract)		COE403
Rosa centifolia L.	Cabbage rose	2993 (stronger rose water)	CFR.21 §182.20	COE404
Rosa damascena Mill.	Red rose	2988 (absolute); 2989 (flower oil); 2993 (stronger rose water)	CFR.21 §182.20	COE405; COE2099
Rosa spp.	Rose	2988 (absolute); 2990 (rosehip extract)	CFR.21 §182.20	
Rosmarinus officinalis L.	Rosemary	2991 (rosemary); 2992 (oil); 4705 (oleoresin)	CFR.21 §182.10; CFR.21 §182.20	COE406
Rubus fruticosus L.	Blackberry	2155 (bark extract)	CFR.21 §172.510	COE408
Rubus idaeus L.	Raspberry			COE409
Rubus suavissimus S. Lee	Sweet blackberry	4717 (leaves extract); 4800 (glucosylated extract, 20-30% glucosylated rutoside glycosides); 4814 (glucosylated extract, 60% glucosylated rutoside glycosides)		
Rumex acutus L.	Sharp-pointed-dock			COE410
Rumex aquaticus L.	Water dock			COE411
Ruta graveolens L.	Common rue	2994 (rue); 2995 (oil)	CFR.21 §184.1699; CFR.21 §184.1698	COE412
Saccharomyces cerevisiae	Beer yeast			COE2099a
Saccharum officinarum Linne	Molasses		CFR.21 §182.20	
Saccharum officinarum L.	Sugar cane	4816 (distillate)		COE2100
Salvia lavandulaefolia Vahl.	Spanish sage	3003 (oil)	CFR.21 §182.20	COE413
Salvia officinalis L.	Common Sage	3000 (sage); 3001 (oil); 3002 (oleoresin)	CFR.21 §182.10; CFR.21 §182.20	COE414
Salvia sclarea L.	Clary-sage	2320 (clary sage); 2321 (oil)	CFR.21 §182.10; CFR.21 §182.20	COE415
Sambucus canadensis L.	Elder	2406 (flowers)	CFR.21 §182.10; CFR.21 §182.20	COE416

Latin Name	English Name	FEMA	US FDA	COE
<i>Sambucus nigra</i> L.	Black elder	2406 (flowers)	CFR.21 §172.510 (In alcoholic beverages only; not to exceed 25 ppm Prussic acid in the flavour); CFR.21 §182.20	COE417
<i>Sanguinaria canadensis</i> L.	Canadian blood root			COE418
<i>Sanguisorba minor</i> Scop.	Salad burnet			COE547; COE2101;
<i>Santalum album</i> L.	Sandalwood	3005 (wood oil)	CFR.21 §172.510	COE420
<i>Santalum austrocaledonicum</i>	Sandalwood austracaledonicum	4815 (oil)		
<i>Santalum spicatum</i> DC.	Australian sandalwood			COE187
<i>Santolina chamaecyparissus</i> L.	Garden cypress			COE421
<i>Saponaria officinalis</i> L.	Soapwort			COE422
<i>Sassafras albidum</i> Nutt. Nees	Sassafras	3010 (bark extract, safrole-free); 3011 (leaf extract, safrole-free)	CFR.21 §172.510 (Safrole free); CFR.21 §172.580	COE424
<i>Satureia hortensis</i> L.	Summer savory	3012 (savory, summer); 3013 (oil); 3014 (oleoresin);	CFR.21 §182.10; CFR.21 §182.20	COE425
<i>Satureia montana</i> L.	Winter savory	3015 (Winter savory); 3016 (oil); 3017 (oleoresin);	CFR.21 §182.10; CFR.21 §182.20	COE426
<i>Saussurea lappa</i> Clarke	Costus	2336 (root oil)	CFR.21 §172.510	COE53
<i>Schinus molle</i> L.	American pepper	3018 (oil)	CFR.21 §182.20	COE427
<i>Scorzonera hispanica</i> L.	Black salsify			COE428
<i>Secale cereale</i> L.	Rye			COE2102
<i>Sesamum indicum</i> L.	Sesame		CFR.21 §182.10	COE429
<i>Shorea javanica</i>	Damar	4820 (gum)		
<i>Silybum Marianum</i> (L.) Gaertn.	holy thistle			COE551; COE2103;
<i>Simaruba amara</i> Aublet	Simarouba		CFR.21 §172.510 (In alcoholic beverages only)	COE430 (deleted)
<i>Sinapis alba</i> L.	White mustard	2761 (yellow mustard)	CFR.21 §182.10; CFR.21 §182.20	COE431
<i>Sinapis arvensis</i> L.	Wild mustard			COE432
<i>Siraitia grosvenorii</i> (Swingle) C.Jeffrey	Lo han kuo	4711 (concentrate)		
<i>Sium sisarum</i> L.	Chervi			COE433
<i>Smilax aristolochiifolia</i> Mill	Mexican sarsaparilla	3009 (extract)	CFR.21 §172.510	COE2104A
<i>Smilax officinalis</i> Kunth in HBK	Ecuador sarsaparilla	3009 (extract)	CFR.21 §172.510	COE2104
<i>Smilax</i> spp.	Sarsaparilla	3009 (extract)	CFR.21 §172.510	COE434
<i>Solanum melongena</i> L.	Eggplant			COE539; COE2105;
<i>Solanum oleracea</i> L.	American black nightshade			COE517; COE540; COE2107;
<i>Solanum tuberosum</i> L.	Potato			COE2106
South American spp. of <i>Copaifera</i> L.	Copaiba		CFR.21 §172.510	
<i>Spartium junceum</i> L.	Genet	2504 (absolute); 2505 (extract)	CFR.21 §172.510	COE436
<i>Spilanthes acmelia</i>	Jambu	3783 (oleoresin)		
<i>Spiraea ulmaria</i> L.	Meadosweet			COE199A

Latin Name	English Name	FEMA	US FDA	COE
<i>Sterculia</i> ssp.	Karaya gum	2605 (gum)	CFR.21 §184.1349	COE437
<i>Stevia rebaudiana</i> Ber	<i>Stevia rebaudiana</i>	4728 (Glucosyl steviol glycosides); 4771 (steviol glycoside extract, Rebaudioside A 60%); 4772 (Steviol glycoside extract, rebaudioside A 80%); 4796 (steviol glycoside extract, rebaudioside C 30%); 4805 (steviol glycoside extract, rebaudioside A 22%); 480		COE552; COE2108;
<i>Styrax benzoin</i> Dryander	benzoin resin	2133 (resin)	CFR.21 §172.510; CFR.21 §182.20	COE439; COE2109
<i>Swertia chirayta</i> Buch Ham.	Indian Chiretta		CFR.21 §172.510 (in alcoholic beverages only)	COE440
<i>Symphytum officinale</i> L.	Sage			COE441
<i>Tagetes erecta</i> L.	Marigold	3040 (oil)	CFR.21 §172.510 (As oil only)	COE494
<i>Tagetes glandulifera</i> Schrank.	African marigold	3040 (oil)	CFR.21 §172.510 (As oil only)	COE443; COE2110
<i>Tagetes</i> spp.	<i>Tagetes</i>	3040 (oil);	CFR.21 §172.510 (as oil only)	
<i>Tamarindus indica</i> L.	Tamarind		CFR.21 §182.20	COE444
<i>Tanacetum vulgare</i> L.	Tansy		CFR.21 §172.510 (In alcoholic beverages only; finished alcoholic beverage thujone free)	COE446
<i>Taraxacum</i> spp.	Dandelion	2357 (fluid extract); 2358 (root extract solid)	CFR.21 §182.20	COE447
<i>Tasmania lanceolata</i>	<i>Tasmania lanceolata</i>	4755 (extract)		
<i>Terminalia chebula</i> Retz.	Myrobalan			COE448
<i>Tetraclinis articulata</i> (Vahl.), Mast	Sandarac		CFR.21 §172.510 (in alcoholic beverages only)	
<i>Teucrium chamaedrys</i> L.	Wall germander		CFR.21 §172.510 (in alcoholic beverages only)	COE449
<i>Teucrium polium</i> L.	Hulwort		CFR.21 §172.510 (in alcoholic beverages only)	COE450 (deleted)
<i>Thaumatococcus daniellii</i> (Bennett) Benth	Katemfe	4831 (fruit extract)		COE2110a
<i>Theobroma cacao</i> L.	Cocoa tree		CFR.21 §182.20	COE452
<i>Thuja occidentalis</i> L.	Yellow cedar	2267 (leaf oil)	CFR.21 §172.510 (finished food thujone free)	COE453
<i>Thymus capitatus</i> L. Hoffmanns & Link	Origanum	2827 (oregano, lippia ssp); 2828 (origanum oil)	CFR.21 §172.510; CFR.21 §182.20; CFR.21 §182.10	COE454
<i>Thymus serpyllum</i> L.	Thyme		CFR.21 §182.10; CFR.21 §182.20	COE455

Latin Name	English Name	FEMA	US FDA	COE
Thymus vulgaris L.	Thyme	3063 (thyme); 3064 (red thyme oil); 3065 (white thyme redistilled oil);	CFR.21 §182.10; CFR.21 §182.20	COE456
Thymus zygis L.	Spanish Thyme		CFR.21 §182.20	COE457
Tilia spp.	Linden	2647 (flowers)	CFR.21 §172.510 (in alcoholic beverages only); CFR.21 §182.10; CFR.21 §182.20	COE458
Tilia tomentosa Moench	Silver linden			COE2111
Trifolium pratense L.	Clover tops	2326 (extract solid)	CFR.21 §182.10; CFR.21 §182.20	COE459
Trigonella foenum-graecum L.	Fenugreek	2484 (fenugreek); 2485 (extract); 2486 (oleoresin);	CFR.21 §182.10; CFR.21 §182.20	COE460
Triticum aestivum L. emend. Fiori et Paol.	Wheat			COE518; COE2112;
Tsuga and picea spp.	Spruce	3034 (spruce oil)	CFR.21 §172.510	
Tsuga canadensis (L.) Carri	Canadian pine		CFR.21 §172.510	COE461
Tuber magnatum Pico	piedmontese truffle			COE544; COE2113;
Tuber melanosporum Vitt.	Truffle, French			COE545; COE2114;
Turnera diffusa Willd.	Damiana		CFR.21 §172.510	COE462
Tussilago farfara L.	Coltsfoot			COE463
Ulmus fulva Michx.	Slippery elm			COE464
Uncaria gambier Roxb.	Gambir		CFR.21 §172.510	COE465
Urtica dioica L.	Common nettle			COE468
Usnea barbata (L.) Wiggers	Treemoss			COE2115
Vaccinium corymbosum L.	Highblush blueberry			COE2116; COE4700;
Vaccinium macrocarpum Aiton	Cranberry, large			COE470
Vaccinium myrtillus L.	Bilberry			COE469
Vaccinium oxycoccos L.	Small cranberry			COE529; COE571; COE2117; COE4700;
Vaccinium uliginosum L.	Blueberry			COE471
Vaccinium vitis-idaea L.	Cowberry			COE472
Valeriana officinalis L.	Valerian	3099 (root extract); 3100 (root oil)	CFR.21 §172.510	COE473
Vanilla spp.	Vanilla	3104 (vanilla); 3105 (extract); 3106 (oleoresin)	CFR.21 §182.10; CFR.21 §182.20	COE474; COE2118
Verbascum thaspsus L.	Mullein		CFR.21 §172.510 (in alcoholic beverages only)	COE475
Verbena odorata	Lemon verbena			COE519; COE2119;
Verbena officinalis L.	Vervain		CFR.21 §172.510 (in alcoholic beverages only)	COE476
Veronica allioni Vill.	Alpine speedwell			COE477
Veronica officinalis L.	Veronica		CFR.21 §172.510 (in alcoholic beverages only)	COE478
Vetiveria zizanioides (L.) Stapf.	Vetiver		CFR.21 §172.510 (in alcoholic beverages only)	COE479

Latin Name	English Name	FEMA	US FDA	COE
Viburnum prunifolium L.	Black haw	2538 (bark extract)	CFR.21 §172.510	COE480
Viola calcarata L.	Violet, Swiss	3110 (leaves absolute)	CFR.21 §172.510	
Viola canina L.	Dog's violet			COE481
Viola odorata L.	Blue violet	3110 (leaves absolute)	CFR.21 §182.20	COE482
Viola tricolor L. v. arvensis	Pansy		CFR.21 §172.510 (In alcoholic beverages only)	COE483
	Cognac oil, green	2331 (cognac oil, green)	CFR.21 §182.50	
	Cognac oil, white	2332 (cognac oil, white)	CFR.21 §182.50	
Vitis vinifera L.	Grape-vine	4045 (seed extract)		COE485
Viverra civetta Schreber	Civet	2319 (absolute)	CFR.21 §182.50	COE558; COE1006; COE3006; COEVI (Civet)
Xanthoxylum spp.	Prickly ash	2110 (extract)	CFR.21 §182.20	COE486
Yucca schidigera Roezl ex Ortigies	Mohave Yucca	3121 (extract)	CFR.21 §172.510	COE487A
Yucca spp.	Yucca	3120 (extract)	CFR.21 §172.510	COE487
Zanthoxylum clava-herculis L.	Pepperwood			COE2120
Zanthoxylum piperitum	Japanese pepper	4754 (extract)		
Zea mays L.	Maize	2335 (corn silk)	CFR.21 §184.1262	COE488
Zingiber officinale Roscoe.	Ginger	2520 (ginger); 2521 (extract); 2522 (oil); 2523 (oleoresin);	CFR.21 §182.10; CFR.21 §182.20	COE489
	Arachidonic acid enriched oil	4679 (oil)		
	Butter	2171 (butter acids); 2172 (butter esters)	CFR.21 §172.515 (butter acids and esters)	
	Butter starters distillate	2173 (distillate)	CFR.21 §184.1848	
	Caramel color	2235 (caramel color)	CFR.21 §182.1235	
	Fusel oil	2497 (oil, refined)	CFR.21 §172.515	
	Pyroligneous acid	2968 (extract), 2967 (pyroligneous acid)	CFR.21 §172.515	
	Valencene 80 extract	4838		