

Dr. Duke's Phytochemical and Ethnobotanical Databases

List of Chemicals for Antioxidant

| Chemical | Dosage |
|---|------------------|
| (+)-CATECHIN | -- |
| (+)-GALLOCATECHIN | -- |
| (+)-SYRINGARESINOL | -- |
| (+)-SYRINGARESINOL | EC50=21-28 ug/ml |
| (-)-BISPARTHENOLIDINE | 30-60 ug/g |
| (-)-BORNYL-CAFFEATE | -- |
| (-)-BORNYL-FERULATE | -- |
| (-)-BORNYL-P-COUMARATE | -- |
| (-)-EPICATECHIN | IC50=6.3 ug/ml |
| (-)-EPICATECHIN-3-O-GALLATE | IC50=0.16 ug/ml |
| (-)-EPIGALLOCATECHIN | IC50=2.3 uM |
| (-)-EPIGALLOCATECHIN | IC50=1.4 ug/ml |
| (-)-EPIGALLOCATECHIN-3-O-GALLATE | IC50=0.14 ug/ml |
| (-)-EPIGALLOCATECHIN-GALLATE | >10 x tocopherol |
| (-)-HYDROXYJASMONIC-ACID | 30 mM |
| (1'S)-1'-ACETOXYCHAVICOL-ACETATE | -- |
| (2R)-(12Z,15Z)-2-HYDROXY-4-OXOHENEICOSA-12,15-DIEN-1-YL-ACETATE | -- |
| (7R,10R)-CAROTA-1,4-DIENALDEHYDE | -- |
| 1,2,6-TRI-O-GALLOYL-BETA-D-GLUCOSE | -- |
| 1,7-BIS(3,4-DIHYDROXYPHENYL)HEPTA-4E,6E-DIEN-3-ONE | >tocopherol |
| 1-O-(2,3,4-TRIHYDROXY-3-METHYL)-BUTYL-6-O-FERULOYL-BETA-D-GLUCOPYRANOSIDE | 30 mM |
| 2,3,7-TRIHYDROXY-5-(3,4-DIHYDROXY-E-STYRYL)-6,7,8,9-TETRAHYDRO-5H-BENZOCYCLOHEPTENE | #NAME? |
| 2-(3',4-DIPHENYL)-ETHANOL | -- |
| 2-CAFFELOYL-OXY-3-{2-(4-HYDROXYBENZYL)-4,5-DIHYDROXY}PHENYLPROPIONIC-ACID | -- |
| 3',4',5,7-TETRAHYDROXYFLAVONE | -- |
| 3,3'-DIMETHYLELLAGIC-ACID | -- |
| 3,4,5-TRI-O-CAFFELOYLQUINIC-ACID | -- |

| Chemical | Dosage |
|---|-------------------|
| 3,4-DICAFFEOYL-QUINIC-ACID | -- |
| 3,4-DIHYDROXYBENZOATE | -- |
| 3,4-HYDROXYCINNAMIC-ACID | -- |
| 3,5,8,3',4'-PENTAHYDROXYFLAVONE | -- |
| 3,5-DI-O-CAFFEOYLQUINIC-ACID | 10 uM |
| 3,5-DICAFFEOYL-QUINIC-ACID | 10 uM |
| 3,7,8,2',5'-PENTAHYDROXYFLAVONE | -- |
| 3-BETA-23,28-TRIHYDROXY-12-OLEANENE-23-CAFFEATE | -- |
| 3-BETA-23,28-TRIHYDROXY-12-OLEANENE-3-BETA-CAFFEATE | -- |
| 3-BETA-TRANS-(3,4-DIHYDROXYCINNAMOYLOXY)-20(29)-LUPEN-28-OIC-ACID | IC50=52-64 uM |
| 3-BETA-TRANS-(3,4-DIHYDROXYCINNAMOYLOXY)-OLEAN-12-EN-28-OIC-ACID | IC50=52-64 uM |
| 3-BETA-TRANS-(3,4-DIHYDROXYCINNAMOYLOXY)-OLEAN-18-EN-28-OIC-ACID | IC50=52-64 uM |
| 3-HYDROXY-FLAVONE | -- |
| 3-O-CAFFEOYLQUINIC-ACID | -- |
| 4,5-DI-O-CAFFEOYLQUINIC-ACID | -- |
| 4-ACETYLARABINOSYL-ELLAGIC-ACID | ca 1/2 quercetin |
| 4-ACETYLYXYLOSYL-ELLAGIC-ACID | ca 1/2 quercetin |
| 4-ALLYL-PYROCATECHOL | -- |
| 4-AMINO-4-CARBOXYCHROMAN-2-ONE | -- |
| 4-ARABINOSYL-ELLAGIC-ACID | ca 1/3 quercetin |
| 4-HYDROXY-TRITRIACONTANE-16,18-DIONE | #NAME? |
| 4-KETOPINORESINOL | EC50=48-57 ug/ml |
| 4-O-CAFFEOYLQUINIC-ACID | -- |
| 4-TERPINEOL | -- |
| 5,7-DIHYDROXYCOUMARIN-7-METHYL-ETHER | IC50=15.5-22.7 uM |
| 5,8-DIHYDROXYBENZOPYRANONE | -- |
| 5-HYDROXY-8-O-BETA-D-GLUCOPYRANOSYL-BENZOPYRANONE | -- |

| Chemical | Dosage |
|--|---------------|
| 5-O-BETA-D-GLUCOPYRANOSYL-3-1-(4-PHENYL)-DECANE | -- |
| 5-O-CAFFELOYLQUINIC-ACID | -- |
| 6'-O-ACETYL-DAIDZIN | 8.2 uM |
| 6'-O-ACETYL-GENISTIN | 10.6 uM |
| 6,7,4'-TRIHYDROXYISOFLAVAN | IC95=1.5uM |
| 6,7,4'-TRIHYDROXYISOFLAVANONE | IC95=8uM |
| 6,7,4'-TRIHYDROXYISOFLAVONE | IC95=12uM |
| 6,7-DI-4'-METHOXYISOFLAVAN | ED95=6 uM |
| 6,7-DI-4'-METHOXYISOFLAVANONE | ED95=6 uM |
| 6,7-DI-4'-METHOXYISOFLAVONE | ED95=7 uM |
| 6,7-DIHYDROXY-4'-METHOXYISOFLAVAN | ED95=1uM |
| 6,7-DIHYDROXY-4'-METHOXYISOFLAVANONE | ED95=6uM |
| 6,7-DIHYDROXY-4'-METHOXYISOFLAVONE | ED95=7uM |
| 6,7-DIHYDROXYCOUMARIN | -- |
| 6-GINGERDIOL | -- |
| 6-GINGEROL | -- |
| 6-SHOGAOL | -- |
| 7,8-DIHYDROXYFLAVONE | IC50=0.64 mM |
| 7-N-BUTOXY-3,2',5'-TRIHYDROXYFLAVONE | -- |
| 7-[3-(3,4-DIHYDROXY-4-HYDROXYMETHYL-TETRAHYDRO-FURAN-2-YLOXY)-4,5-DIHYDROXY-6-HYDROXYMETHYL-TETRAHYDRO-PYRAN-2-YLOXY]... | 250 ug/ml |
| ACANTHOIC-ACID | -- |
| ACETOXPINOESINOL | -- |
| ACETYL-EUGENOL | EC50=100 ul/l |
| ACETYLCURCUMIN | #NAME? |
| AESCIN | -- |
| AESCULIN | -- |
| ALANINE | -- |

| Chemical | Dosage |
|----------------------|-------------------|
| ALANTOLACTONE | -- |
| ALIZARIN | -- |
| ALLANTOIN | -- |
| ALLICIN | 1.8 ug/ml |
| ALLIIN | -- |
| ALLIXIN | -- |
| ALLYL-MERCAPTAN | -- |
| ALPHA-BOSWELLIC-ACID | -- |
| ALPHA-LIPOIC-ACID | -- |
| ALPHA-TOCOPHEROL | 5 x quercetin |
| ALPHA-TOCOPHEROL | IC34=10 uM |
| ALPHA-TOCOTRIENOL | -- |
| AMENTOFLAVONE | IC10.6=62.5 ug/ml |
| AMPELOPSIN | -- |
| ANDROGRAPHOLIDE | -- |
| ANDROGRAPHOSIDE | -- |
| ANETHOLE | -- |
| ANISOLE | -- |
| ANTHOCYANIDINS | -- |
| ANTHOCYANINS | -- |
| APIGENIN | 1.5 x Vit. E |
| APIGENIN | IC28.5=62.5 ug/ml |
| APOCYNIN | -- |
| A POMORPHINE | IC50=35-37 ug/ml |
| ARENARIOSIDE | ED50=1.8 uM |
| ASCORBIC-ACID | 100 ppm |
| ASCORBYL-PALMITATE | -- |

| Chemical | Dosage |
|-----------------------|--------------------|
| ASPALATHIN | >ferulic acid |
| ATRACTYLON | -- |
| AUCUBIN | -- |
| BACOSIDE-A | -- |
| BAICALIN | -- |
| BALLOTETROSIDE | ED50=7.5 uM |
| BERBAMINE | -- |
| BETA-AMYRIN-ACETATE | -- |
| BETA-CAROTENE | -- |
| BETA-D-TAGATOSE | -- |
| BETA-SITOSTEROL | IC44=10 uM |
| BETANIDIN | -- |
| BETANIN | -- |
| BILOBALIDE | IC28= 62.5 ug/ml |
| BILOBALIDE | 0.15 ug/ml |
| BILOBETIN | IC34.3= 62.5 ug/ml |
| BIS-DEMETHOXYCURCUMIN | #NAME? |
| BISEPOXYLIGNAN | -- |
| BISMURRAYAFOLINE-E | >tocopherol |
| BIXIN | 30-60 ug/g |
| BOLDINE | IC50=17-33 ug/ml |
| BOSWELLIC-ACID | -- |
| BREVIFOLIN | -- |
| BROUSSOAUURONE-A | -- |
| BROUSSOCHALCONE-A | -- |
| BROUSSOFLAVAN-A | -- |
| BROUSSOFLAVONOL-F | -- |

| Chemical | Dosage |
|-----------------------|---------------|
| BROUSSOFLAVONOL-G | -- |
| BRUCINE | -- |
| BUPLUERAN-2IIC | -- |
| BUTEIN | 1,000 uM |
| CAFFEIC-ACID | 1/2 BHA |
| CAFFEIC-ACID | IC57=30 ppm |
| CAFFEIC-ACID | 1/3 quercetin |
| CAFFEIC-ACID | 1.3 x Vit. E |
| CAFFEIC-ACID | 50 uM |
| CAFFEIC-ACID | 30 mM |
| CAFFEINE | -- |
| CAFFEOYL-L-MALIC-ACID | ED50=9.5 uM |
| CAMPESTEROL | IC37=10 uM |
| CAMPESTERYL-FERULATE | -- |
| CAMPHENE | -- |
| CAPSAICIN | -- |
| CAPSAICINOL | -- |
| CAPSANTHIN | -- |
| CARNOSIC-ACID | IC50=0.81 uM |
| CARNOSOL | -- |
| CARNOSOLIC-ACID | -- |
| CARVACROL | -- |
| CATALASE | -- |
| CATECHIN | IC50=0.19 uM |
| CATECHIN | 2.4 x Vit. E |
| CATECHOL | -- |
| CELESTROL | -- |

| Chemical | Dosage |
|----------------------------------|---------------|
| CEPHARANTHINE | IC50=25 uM |
| CHAMAZULENE | -- |
| CHLOROGENIC-ACID | IC50=54.2 uM |
| CHLOROGENIC-ACID | IC80=12 uM |
| CHLOROGENIC-ACID | IC53=200 ppm |
| CHLOROPHORIN | -- |
| CHLOROPHYLL | -- |
| CHOLESTEROL | IC43=10 uM |
| CHRYSOERIOL | -- |
| CIMICIFUGIC-ACID-A | IC50=24-32 uM |
| CIMICIFUGIC-ACID-B | IC50=20-26 uM |
| CIMICIFUGIC-ACID-F | IC50=17-24 uM |
| CIMIRACEMATE-A | IC50=18-23 uM |
| CIMIRACEMATE-B | IC50=16-23 uM |
| CIS-10-HEPTADECENOIC-ACID | IC84=60 |
| CIS-10-NONADECENOIC-ACID | IC84=60 |
| CIS-10-PENTADECENOIC-ACID | IC82=60 |
| CIS-11,14-EICOSADIENOIC-ACID | IC64=60 |
| CIS-11-EICOSENOIC-ACID | IC99=60 |
| CIS-11-VACCENIC-ACID | IC92=60 |
| CIS-13,16,19-DOCOSATRIENOIC-ACID | IC76=60 |
| CIS-13,16-DOCOSADIENOIC-ACID | IC78=60 |
| CIS-13-ERUCIC-ACID | IC80=60 |
| CIS-15-NERVONIC-ACID | IC25=60 |
| CIS-8,11,14-EICOSATRIENOIC-ACID | IC58=60 |
| CIS-9,12,15-LINOLENIC-ACID | IC76=60 |
| CIS-9,12-LINOLEIC-ACID | IC77=60 |

| Chemical | Dosage |
|-------------------------------|--------------------|
| CIS-9-OLEIC-ACID | IC81=60 |
| CIS-9-PALMITOLEIC-ACID | IC80=60 |
| CITRAL | -- |
| CITRIFOLININ-B | IC8=30 uM |
| CLAUSENAMIDE | -- |
| CLEOMISCOSIN-C | -- |
| COCLAURINE | IC50=>100ug/ml |
| CONIFERYL-ALCOHOL | EC50=13-18 ug/ml |
| CORILAGIN | -- |
| CORYPALMINE | IC50=49->100 ug/ml |
| CROCETIN | -- |
| CURCUMIN | 1/3 BHA |
| CURCUMIN | IC50=500 uM |
| CYANIDIN | ID50=3.5-22 uM |
| CYANIDIN | 4.4 x Vit. E |
| CYANIDIN-3,5-DIGLYCOSIDE | -- |
| CYANIDIN-3-O-BETA-D-GLUCOSIDE | -- |
| CYANIDIN-3-O-GALACTOSIDE | -- |
| CYANIDIN-3-O-GLUCOSIDE | -- |
| CYANIDIN-3-RUTINOSIDE | -- |
| CYANIDOL | -- |
| CYSTEINE | -- |
| DAIDZEIN | 1/4 quercetin |
| DAIDZIN | -- |
| DEHYDROCURDIONE | -- |
| DEHYDROLEUCODINE | -- |
| DELPHINIDIN | ID50=0.7-2.4 uM |

| Chemical | Dosage |
|------------------------------------|------------------|
| DELPHINIDIN-3-GLUCOSIDE | -- |
| DELPHINIDIN-3-O-BETA-D-GALACTOSIDE | -- |
| DELPHINIDIN-3-O-BETA-D-GLUCOSIDE | -- |
| DELPHINIDIN-CHLORIDE | -- |
| DELTA-5-AVENASTEROL | -- |
| DELTA-7-AVENASTEROL | -- |
| DELTA-TOCOPHEROL | IC46=10 uM |
| DELTA-TOCOTRIENOL | -- |
| DEMETHYLTEXASIN | -- |
| DIALLYL-DISULFIDE | -- |
| DIALLYL-HEPTASULFIDE | -- |
| DIALLYL-HEXASULFIDE | -- |
| DIALLYL-PENTASULFIDE | -- |
| DIALLYL-SULFIDE | -- |
| DIALLYL-TETRASULFIDE | -- |
| DIALLYL-TRISULFIDE | -- |
| DICAFFEOYLQUINIC-ACID | -- |
| DIHYDROQUERCETIN | -- |
| DIMETHYL-SULFOXIDE | -- |
| DIOSCORIN | -- |
| DIOSMIN | -- |
| DL-CYSTEINE | -- |
| DODECYL-GALLATE | -- |
| ELEUTHEROCCAL | -- |
| ELLAGIC-ACID | IC98=30 ppm |
| ELLAGIC-ACID | 2/3 quercetin |
| ELLAGIC-ACID | >50 x tocopherol |

| Chemical | Dosage |
|--|------------------|
| ELLAGITANNIN | -- |
| EMBELIN | -- |
| EPICATECHIN | 2.5 x Vit. E |
| EPICATECHIN | 3/4 quercetin |
| EPICATECHIN | IC50=6.3 ug/ml |
| EPICATECHIN | IC50=10.2 uM |
| EPICATECHIN-3-O-GALLATE | IC50=0.16 ug/ml |
| EPICATECHIN-GALLATE | >10 x tocopherol |
| EPIGALLOCATECHIN | IC50=1.4 ug/ml |
| EPIGALLOCATECHIN-3-O-GALLATE | IC50=0.14 ug/ml |
| EPIROSMANAL | -- |
| ERIODICTYOL | -- |
| ESCIN | -- |
| ESCULIN | -- |
| ETHYL-BETA-D-GLUCOPYRANOSYL-TUBERONATE | 30 mM |
| ETHYL-GALLATE | -- |
| EUCHRESTINE-B | >tocopherol |
| EUGENOL | IC65=30 ppm |
| EUGENOL | 10 uM |
| EUPATRIOL | -- |
| FERULIC-ACID | 3,000 uM |
| FERULIC-ACID | EC50=9-15 ug/ml |
| FERULIC-ACID | 1/3 quercetin |
| FERULIC-ACID | 1/2 BHA |
| FERULIC-ACID | IC51=200 ppm |
| FERULOYLHISTAMINE | -- |
| FISETIN | -- |

| Chemical | Dosage |
|--|------------------|
| FORSYTHOSIDE-B | ED50=1 uM |
| FRAXIN | -- |
| FUCOXANTHIN | -- |
| FUMARIC-ACID | -- |
| FURANEOL | -- |
| GALANGIN | -- |
| GALLIC-ACID | IC44=33 ppm |
| GALLIC-ACID | 7 x quercetin |
| GALLIC-ACID | 2/3 BHA |
| GALLIC-ACID-4-O-BETA-D-GLUCOPYRANOSIDE | -- |
| GAMMA-ORYZANOL | -- |
| GAMMA-TERPINENE | -- |
| GAMMA-TOCOPHEROL | IC43=10 uM |
| GAMMA-TOCOPHEROL | 10-15 ug/g |
| GAMMA-TOCOTRIENOL | -- |
| GARCINOL | (1/2 tocopherol) |
| GARDENOSIDE | -- |
| GENIPOSIDE | -- |
| GENIPOSIDIC-ACID | IC50=400 uM |
| GENISTEIN | -- |
| GENISTIN | -- |
| GENTISIC-ACID | 1/3 BHA |
| GERANIIN | -- |
| GINGEROL | -- |
| GINKGETIN | IC19=62.5 ug/ml |
| GINKGOLIDE | -- |
| GINKGOLIDE-A | 0.05 ug/ml |

| Chemical | Dosage |
|-------------------------|---------------------|
| GINKGOLIDE-A | IC29=62.5 ug/ml |
| GINKGOLIDE-B | IC37=62.5 ug/ml |
| GINKGOLIDE-B | 0.05 ug/ml |
| GINKGOLIDE-C | IC26=62.5 ug/ml |
| GINKGOLIDE-J | IC34=62.5 ug/ml |
| GINKGOLIDES | -- |
| GLABRIDIN | -- |
| GLUTATHIONE | -- |
| GLYCITEIN | -- |
| GLYCITEIN-7-0-GLUCOSIDE | -- |
| GLYCYRRHETIC-ACID | -- |
| GLYCYRRHETINIC-ACID | -- |
| GLYCYRRHIZIN | -- |
| GOSSYPETIN | -- |
| GOSSYPIN | IC50=1.63 mM |
| GOSSYPOL | -- |
| HAMAMELITANNIN | -- |
| HEPTADECANOIC-ACID | IC48=60 |
| HEPTASULFIDE | -- |
| HESPERIDIN | IC50=8 ppm |
| HESPERITIN | -- |
| HETERODENDRIN | -- |
| HEXASULFIDE | -- |
| HIBISCUSIDE | -- |
| HISPIDULIN | ED=uM |
| HISTIDINE | -- |
| HONOKIOL | 1000 x a-tocopherol |

| Chemical | Dosage |
|--|-----------------|
| HUMULONE | -- |
| HYDROQUINONE | -- |
| HYDROXY-CHAVICOL | -- |
| HYPERIN | -- |
| HYPEROSIDE | IC50=4.6 uM |
| IONOL | -- |
| ISOCHLOROGENIC-ACID | -- |
| ISOEUGENOL | IC79=30 ppm |
| ISOFERULIC-ACID | IC50=189-193 uM |
| ISOFRAXIN | -- |
| ISOLIQUIRITIGENIN | -- |
| ISOMENTHONE | -- |
| ISOORIENTIN | -- |
| ISOPILINE | IC50=24-35ug/ml |
| ISOQUERCITRIN | IC50=9.0 uM |
| ISOQUERCITRIN | 1/4 quercetin |
| ISORHAMNETIN | -- |
| ISORHAMNETIN-3,7-DI-O-BETA-D-GLUCOPYRANOSIDE | -- |
| ISORHAMNETIN-DIGLUCOSIDE | -- |
| ISORHYNCHOPHYLLINE | -- |
| ISOROSMANOL | -- |
| ISOTERCHEBIN | -- |
| ISOTHYMONIN | 10 uM |
| ISOTHYMUSIN | 10 uM |
| ISOTORACHRYSONE | IC50=1.64 uM |
| ISOVITEXIN | #NAME? |
| ISOVITEXIN | >BHA |

| Chemical | Dosage |
|--|----------------|
| KAEMPFEROL | 3/4 quercetin |
| KAEMPFEROL | IC50=40 uM |
| KAEMPFEROL | IC50=1.2 ug/ml |
| KAEMPFEROL-3-O-ALPHA-ARABINOPYRANOSIDE-2"-GALLATE | -- |
| KAEMPFEROL-3-O-ALPHA-L-RHAMNOPYRANOSYL-(1->6)-BETA-D-GLUCOPYRANOSIDE | IC4.5=30 uM |
| KAEMPFEROL-3-O-BETA-D-GLUCOPYRANOSYL-(1->2)-[ALPHA-L-RHAMNOPYRANOSYL-(1->6)-BETA-D-GALACTOPYRANOSIDE | IC29=30 uM |
| KAEMPFEROL-3-O-GALACTOSIDE | ED=uM |
| KAEMPFEROL-7-O-RHAMNOSIDE | 1/5 quercetin |
| L-ALANINE | -- |
| L-GLUTATHIONE | -- |
| LABIATIC-ACID | -- |
| LAUDANOSOLINE | IC50=48-63 uM |
| LAURIC-ACID | IC71=60 |
| LAURYL-GALLATE | -- |
| LEUCOANTHOCYANIN | -- |
| LIGNANS | -- |
| LIGNIN | -- |
| LINALYL-ACETATE | 400 ppm |
| LUPEOL | 25 mg/kg/day |
| LUPULONE | -- |
| LUTEIN | -- |
| LUTEOLIN | IC50=10 uM |
| LUTEOLIN-3'-O-(3"-O-ACETYL)-BETA-D-GLUCURONIDE | IC50=ca 25 ppm |
| LUTEOLIN-3'-O-(4"-O-ACETYL)-BETA-D-GLUCURONIDE | IC50=14 ppm |
| LUTEOLIN-4'-O-GLUCOSIDE | 22.59 U/ml |
| LUTEOLIN-7-GLUCURONIDE | -- |
| LUTEOLIN-7-O-BETA-GLUCOPYRANOSIDE | -- |

| Chemical | Dosage |
|----------------------------------|----------------------|
| LUTEOLIN-7-O-BETA-GLUCOSIDE | -- |
| LYCOPENE | -- |
| M-HYDROXYBENZALDEHYDE | -- |
| MACHILIN-D | IC50=2.9 uM |
| MAGNOLOL | 1,000 x a-tocopherol |
| MAHANIMBINE | 33 ug/ml |
| MAHANINE | >tocopherol |
| MAHIMBICINE | -- |
| MALONYLDAIDZIN | -- |
| MALONYLGENISTIN | -- |
| MALTOL | -- |
| MALVIDIN | -- |
| MALVIDIN-3-GALACTOSIDE | -- |
| MALVIDIN-3-O-ALPHA-L-GALACTOSIDE | -- |
| MALVIN | -- |
| MANGANESE | -- |
| MANGIFERIN | -- |
| MANNITOL | -- |
| MARTYNOSIDE | -- |
| MAYTENOLIDE | EC50=42-50 ug/ml |
| MELANIN | -- |
| MELATONIN | -- |
| METHIONINE | -- |
| METHYL-3,4-DIHYDROXYBENZOATE | -- |
| METHYL-CAFFEATE | -- |
| METHYL-CARNOSATE | -- |
| METHYL-EUGENOL | EC50=100 u/l |

| Chemical | Dosage |
|--|------------------|
| METHYL-GALLATE | -- |
| METHYL-P-HYDROXYBENZOATE | -- |
| METHYL-SALICYLATE | -- |
| METHYLHYDROQUINONE | -- |
| MORELLOFLAVONE | ED=uM |
| MORIN | IC50=1.73mM |
| MYRCENE | -- |
| MYRICETIN | IC99=200 ppm |
| MYRICETIN | IC50=3.9 ug/ml |
| MYRICETIN | 1.4 uM |
| MYRICETIN-3-O-ALPHA-L-ARABINOPYRANOSIDE | -- |
| MYRICITRIN | -- |
| MYRIGALONE-B | -- |
| MYRISTIC-ACID | IC71=60 |
| MYRISTICIN | 25-100 mg/kg/orl |
| MYRISTOLEIC-ACID | IC60=60 |
| N,N'-[2,2'-(5,5'-DIHYDROXY-4,4'-BI-1H-INDOL-3,3'-YL)-DIETHYL]-DI-P-COUMARAMIDE | -- |
| N,N'-[2,2'-(5,5'-DIHYDROXY-4,4'-BI-1H-INDOL-3,3'-YL)-DIETHYL]-DIFERULAMIDE | -- |
| N-ACETYLCYSTEINE | -- |
| N-ALPHA-(1-DEOXY-D-FRUCTOS-1-YL)-L-ARGININE | #NAME? |
| N-ALPHA-(1-DEOXY-D-FRUCTOS-1-YL)-L-ARGININE | IC100=50 uM/l |
| N-ALPHA-(1-DEOXY-D-FRUCTOS-1-YL)-L-ARGININE | IC37=10 uM/l |
| N-CIS-FERULOLYTYRAMINE | -- |
| N-FRUCTOSYL-ARGININE | -- |
| N-FRUCTOSYL-GLUTAMATE | -- |
| N-P-COUMAROYL-SEROTONIN | -- |
| N-TRANS-FERULOLYTYRAMINE | -- |

| Chemical | Dosage |
|--|-----------------|
| N-TRITRIACONTANE-16,18-DIONE | #NAME? |
| N-TRITRIACONTANE-18,18-DIONE | -- |
| N-[2-(5-(BETA-D-GLUCOSYLOXY)-1H-INDOL-3-YL)-ETHYL]-FERULAMIDE | -- |
| N-[2-(5-(BETA-D-GLUCOSYLOXY)-1H-INDOL-3-YL)-ETHYL]-P-COUMARAMIDE | -- |
| NARINGENIN | 7 x quercetin |
| NARINGIN | -- |
| NASUNIN | -- |
| NEOANDROGRAPHOLIDE | -- |
| NEOHESPERIDIN | 7 x quercetin |
| NEOHESPERIDIN | -- |
| NORBIXIN | -- |
| NORDIHYDROGUAIARETIC-ACID | 5-100 |
| NORDIHYDROGUAIARETIC-ACID | 100-200 mg/kg |
| NORISOGUAIAICIN | -- |
| NOTHOFAGIN | -- |
| OCTYL-GALLATE | -- |
| OLEANOLIC-ACID | IC46=10 uM |
| OLEANOLIC-ACID | -- |
| OLEUROPEIN | IC49=10 uM |
| OPC | -- |
| OPCS | -- |
| ORIENTIN | -- |
| OSAGIN | -- |
| OTOBAIN | -- |
| OXYACANTHINE | -- |
| OXYRESVERATROL | IC50=3.3-4.3 uM |
| P-COUMARIC-ACID | 1/3 BHA |

| Chemical | Dosage |
|--|----------------|
| P-COUMARIC-ACID | IC24=30 ppm |
| P-CYMENE-2,3-DIOL | -- |
| P-CYMENE-2,3-DIOL-6,6'-DIMER | -- |
| P-HYDROXY-BENZOIC-ACID | -- |
| P-HYDROXYCINNAMIC-ACID | -- |
| PALMITIC-ACID | IC40=60 |
| PEDUNCULAGIN | -- |
| PELARGONIDIN | ID50=85-456 uM |
| PENTA-O-GALLOYL-BETA-D-GLUCOSE | -- |
| PENTADECANOIC-ACID | IC40=60 |
| PENTASULFIDE | -- |
| PEONIDIN-3-(CAFFEOYLSOPHOROSIDE)-5-GLUCOSIDE | -- |
| PEONIDIN-3-O-BETA-D-GLUCOSIDE | -- |
| PERSENONE-A | -- |
| PERSENONE-B | -- |
| PETUNIDIN-3-O-BETA-D-GALACTOSIDE | -- |
| PETUNIDIN-3-O-BETA-D-GLUCOSIDE | -- |
| PHENOL | -- |
| PHENYL-GLUCOSIDE | -- |
| PHLOROTANNIN | -- |
| PHYLLIGENIN | -- |
| PHYTIC-ACID | -- |
| PICEATANNOL | -- |
| PICEID | -- |
| PINORESINOL | (> tocopherol) |
| PIPERINE | -- |
| PLUMBAGIN | -- |

| Chemical | Dosage |
|--------------------------------------|-----------------------|
| POLYDATIN | -- |
| POLYPHENOLS | IC50=1.44 ug/ml |
| POMIFERIN | -- |
| PROANTHOCYANIDINS | 5 x Vit. E |
| PROANTHOCYANIDINS | >Vit E-succinate |
| PROCYANIDIN-A-2 | -- |
| PROCYANIDIN-B-2-3'-O-GALLATE | -- |
| PROCYANIDIN-B-2-3,3'-DI-O-GALLATE | IC50=0.44 ug/ml |
| PROCYANIDIN-B-5-3,3'-DI-O-GALLATE | IC50=0.42 ug/ml |
| PROCYANIDIN-C-1-3,3,3'-TRI-O-GALLATE | IC50=0.62 ug/ml |
| PROCYANIDINS | -- |
| PROPYL-GALLATE | >tocopherol |
| PROPYL-GALLATE | -- |
| PROTocatechualdehyde | >tocopherol |
| PROTocatechuic-acid | 10 x alpha-tocopherol |
| PROTocatechuic-acid | 1/2 BHT |
| PROTocatechuic-acid | 2/3 quercetin |
| PROTOPAVERINE | IC50=61 uM |
| PRUNUSOL | -- |
| PTEROSTILBENE | -- |
| PUERARIN | -- |
| PUNICACORTEIN | -- |
| PUNICALAGIN | IC50=2.3 uM |
| PURPUROGALLIN | -- |
| PYCNOGENOL | -- |
| PYROCATECHOL | -- |
| PYROGALLOL | -- |

| Chemical | Dosage |
|---|---------------|
| QUERCETAGENIN-7-O-GLUCOSIDE | -- |
| QUERCETAGETIN | -- |
| QUERCETIN | ED50=2.3 uM |
| QUERCETIN | IC96=300 ppm |
| QUERCETIN | IC47=10 uM |
| QUERCETIN | 4.7 x Vit. E |
| QUERCETIN-3,4'-DIGLUCOSIDE | -- |
| QUERCETIN-3-O-ALPHA-ARABINOPYRANOSIDE-2''-GALLATE | -- |
| QUERCETIN-3-O-ALPHA-L-RHAMNOPYRANOSYL-(1->6)-BETA-D-GLUCOPYRANOSIDE | IC80=30 uM |
| QUERCETIN-3-O-BETA-D-GLUCOPYRANOSIDE | IC86=30 uM |
| QUERCETIN-3-O-BETA-D-GLUCOPYRANOSYL-(1-->6)-BETA-D-GLUCOPYRANOSIDE | -- |
| QUERCETIN-3-O-BETA-D-GLUCOPYRANOSYL-(1->2)-ALPHA-L-RHAMNOPYRANOSYL-(1->6)-BETA-D-GALACOPYRANOSIDE | IC81=30 uM |
| QUERCETIN-4'-BETA-GLUCOSIDE | -- |
| QUERCETIN-4'-GLUCOSYL-GALLATE | -- |
| QUERCETIN-4'-O-BETA-D-GLUCOPYRANOSIDE-6''-GALLATE | -- |
| QUERCITRIN | IC50=120 uM |
| RESORCINOL | -- |
| RESVERATROL | IC50=2 mg/L |
| RESVERATROL | 2 x Vit. E |
| RHAMNETIN | -- |
| RHYNCHOPHYLLINE | -- |
| RIBOFLAVIN | -- |
| ROBINETIN | IC50=1.02mM |
| ROBININ | 1/5 quercetin |
| ROSMADIAL | -- |
| ROSMANOL | -- |
| ROSMANOL-9-ETHYL-ETHER | -- |

| Chemical | Dosage |
|------------------------------|---------------------------|
| ROSMARIDIPHENOL | -- |
| ROSMARINIC-ACID | EC50=2.7 ug/ml |
| ROSMARINIC-ACID | 10 uM |
| ROSMARIQUINONE | -- |
| ROSMAROL | -- |
| RUBROBRASSICIN | -- |
| RUTIN | IC54=10 uM |
| RUTIN | IC50=120 uM |
| RUTIN | IC28=30 ppm |
| S-ALLYL-CYSTEINE-SULFOXIDE | -- |
| S-ALLYL-L-CYSTEINE | -- |
| S-ALLYLMERCAPTOCYSTEINE | -- |
| S-METHYLMERCAPTOCYSTEINE | -- |
| SALICYLIC-ACID | -- |
| SALVIANOLIC-ACID-A | -- |
| SALVIANOLIC-ACID-B | -- |
| SANGUINARINE | IC50=10 uM |
| SAURURIN-A | IC50=8.5 uM |
| SCHIZANDRIN | -- |
| SCIADOPITYSIN | IC37=0.5 ug/ml |
| SCOPOLETIN | -- |
| SCUTELLAREIN | ED=uM |
| SCUTELLAREIN-7-O-GLUCURONIDE | ED=uM |
| SECOISOLARICIRESINOL | -- |
| SELENIUM | 100-200 (-400) ug/man/day |
| SESAMIN | IC33=2.5 ug/ml |
| SESAMIN | IC50=58 uM |

| Chemical | Dosage |
|----------------------|-----------------|
| SESAMINOL | (=tocopherol) |
| SESAMINOL-GOSSYPOL | -- |
| SESAMOL | IC50=<58 uM |
| SESAMOL | (> tocopherol) |
| SESAMOL | IC70=30 ppm |
| SESAMOLIN | -- |
| SESAMOLINOL | (> tocopherol) |
| SHIKIMIC-ACID | 7 x quercetin |
| SILIBININ | -- |
| SILYBIN | -- |
| SILYMARIN | 10 x tocopherol |
| SINAPIC-ACID | IC27=30 ppm |
| SPARTEINE | -- |
| SPERMIDINE | -- |
| SPERMINE | -- |
| SPIRAEOSIDE | -- |
| SQUALENE | -- |
| STIGMASTEROL | IC33=10 uM |
| STRYCHNINE | -- |
| SUCROSE | -- |
| SULFORAPHANE | -- |
| SUPEROXIDE-DISMUTASE | -- |
| SYRIACUSIN-A | IC50=0.54 ug/ml |
| SYRIACUSIN-B | IC50=5.9 ug/ml |
| SYRIACUSIN-C | IC50=1.02 ug/ml |
| SYRINGALDEHYDE | -- |
| SYRINGIC-ACID | IC39=30 ppm |

| Chemical | Dosage |
|-------------------------|------------------|
| SYRINGIC-ACID | 1/3 BHA |
| TAMARIXETIN | IC50=1.5 ug/ml |
| TANGERETIN | -- |
| TANNIC-ACID | IC56=30 ppm |
| TANNIN | IC50=1.44 ug/ml |
| TANNIN | 1/3 quercetin |
| TAURINE | -- |
| TAXIFOLIN | -- |
| TELLIMAGRANIN | -- |
| TERPINEN-4-OL | -- |
| TERPINOLENE | -- |
| TETRAGALLOYLQUINIC-ACID | -- |
| TETRAHYDROCURCUMIN | 2.5 x tocopherol |
| TETRANDRINE | -- |
| TETRASULFIDE | -- |
| THEAFLAVIN | -- |
| THEARUBIGEN | -- |
| THIOCTIC-ACID | -- |
| THONNINGIANIN-A | -- |
| THONNINGIANIN-B | -- |
| THRACHRYSONE | -- |
| THYMOL | 100 ppm |
| THYMOQUINONE | -- |
| TOCOPHEROL | IC50=30 ug/ml |
| TOCOPHEROL | IC36=10 uM |
| TOCOPHEROL | IC95=650 uM |
| TRANS-ANETHOLE | -- |

| Chemical | Dosage |
|----------------------------------|----------------|
| TRANS-FERULIC-ACID | -- |
| TRANS-P-MENTH-8-EN-7-YL-CAFFEATE | -- |
| TRIALLYLSULFIDE | -- |
| TRICIN | -- |
| TRIDECANOIC-ACID | IC85=60 |
| TRIMETHYLAMINE | -- |
| TRYPTOPHAN | 125 ug/ml |
| TURMERIN | -- |
| TURMERONOL-A | IC50=16 uM |
| TURMERONOL-B | IC50=9 uM |
| TYROSOL | -- |
| UBIQUINOL | -- |
| UBIQUINONE | -- |
| UBIQUINONE-Q10 | -- |
| URSOLIC-ACID | IC50=10 uM |
| UVAOL | IC47=10 uM |
| VANILLIC-ACID | IC21=30 ppm |
| VANILLIC-ACID | 1/3 BHA |
| VANILLIC-ACID-BETA-GLUCOSIDE | -- |
| VANILLIN | #NAME? |
| VERBASCOSIDE | ED50=1 uM |
| VERBASCOSIDES | ED50=1 uM |
| VICENIN | -- |
| VINYL-CAFFEATE | -- |
| VIROLIN | IC50=4.3 uM |
| VITAMIN-E | IC50=300 ug/ml |
| VITAMIN-E | IC95=650 uM |

| Chemical | Dosage |
|--------------|--------|
| VITEXIN | -- |
| WEDELIC-ACID | -- |
| WOGONIN | -- |