

Dr. Duke's Phytochemical and Ethnobotanical Databases
List of Chemicals for Antiplasmodial

Chemical	Dosage
ICAJINE	IC50=>80-95 uM
BETA-SELINENE	IC50=>50 ug/ml
ALPHA-SELINENE	IC50=>50 ug/ml
CYPERENE	IC50=>50 ug/ml
VOMICINE	IC50=>30 uM
QUINDOLINE	IC50=>229 uM
CORYNANTHINE	IC50=>200 uM
ALPHA-YOHIMBINE	IC50=>200 uM
CRYPTOLEPINOIC-ACID	IC50=>181 uM
ALSTONERINE	IC50=9.7-46.3 uM
CRYPTOQUINDOLINE	IC50=9.1-34.6 uM
ANCISTROBERTSONINE-B	IC50=9->23.7 uM
DAMNACANTHAL	IC50=9-83 ug/ml
ISOCHONDRODENDRINE	IC50=892 uM
HUMULENE	IC50=86 ug/ml
(-)-CORYDALMINE	IC50=840-2840 ug/ml
CORYNANTHEINE	IC50=81 uM
MACRALSTONINE	IC50=8.9 uM
5,7-DIMETHOXY-8-(3'-HYDROXY-3'-METHYL-1'-BUTENE)	IC50=8.8-16.25 ug/ml
RUBIADIN-1-METHYL-ETHER	IC50=8-83 ug/ml
DENTATIN	IC50=8-12 ug/ml
BONASPECTIN-A	IC50=8 ug/ml
HYDROXYCRYPTOLEPINE	IC50=77-102 uM
OLEANOLIC-ACID	IC50=70-89 ug/ml
SUNGUCINE	IC50=7.8-10.1 uM
TOMENTOSRIN	IC50=7.8 ug/ml
8-EPIXANTHIN-1,5-EPOXIDE	IC50=7.8 ug/ml

Chemical	Dosage
PUNICALAGIN	IC50=7.5-8.8 uM
20-EPIANTIRHINE	IC50=7.5 uM
6-ACETYLSWIETENOLIDE	IC50=7.5 ug/ml
ARTEINCULTON	IC50=7.5 ug/ml
TRANS-PINOCARVYL-HYDROPEROXIDE	IC50=7.5 ug/ml
AKAGERINE	IC50=7 mg/ml
DIHYDROCORYNANTHEINE	IC50=66 uM
DIOSPYRIN	IC50=626 uM
ANHYDROLYCORINE	IC50=6.1-6.4 ug/ml
TERMILIGNAN	IC50=6-9 uM
PLEIOCARPAMINE	IC50=6-20 uM
(-)-THAICANINE	IC50=550-1,610 u/gml
ISOMELDENIN	IC50=50 ug/ml
NIMBANDIOL	IC50=50 ug/ml
NIMOCINOL	IC50=50 ug/ml
3-METHYLNAPHTHARAZIN	IC50=5.8 uM
ALPHA-CYPERONE	IC50=5.5 ug/ml
SECURINE	IC50=5.4 ug/ml
MELDENIN	IC50=5.2 ug/ml
16-EPIAFFININE	IC50=5->5 ug/ml
NB-METHYLAFFINISINE	IC50=5->5 ug/ml
AFFINISINE	IC50=5->5 ug/ml
12-METHOXY-NB-METHYLVOACHOLATINE	IC50=5->5 ug/ml
VIROLONGIN-A	IC50=5-6 ug/ml
MYRTENAL	IC50=5-50 ug/ml
TRANS-PINOCARVEOL	IC50=5-50 ug/ml
MYRTENOL	IC50=5-50 ug/ml

Chemical	Dosage
N-ISOBUTYLDECA-2,4-DIENAMIDE	IC50=5-5.4 ug/ml
ANCISTROCLADINE	IC50=5-25 ug/ml
ANCISTROBREVINE	IC50=5-25 ug/ml
7-DEACETYLKHIVORIN	IC50=5 ug/ml
METHYLANGOLENSATE	IC50=5 ug/ml
(-)-ASIMLOBINE	IC50=470-950 ug/ml
(-)-NOR-DICENTRINE	IC50=470-1030 ug/ml
ALSTONERINE	IC50=46.3 uM
SIPANDINOLIDE	IC50=46 ug/ml
(-)-XYLOPINE	IC50=440-2,270 ug/ml
11-METHOXYAKUAMMICINE	IC50=41.3 uM
CORYNANTHEDINE	IC50=41 uM
TALCARPINE	IC50=40.3 uM
ANCISTROBERTSONINE-D	IC50=4.8 uM
EXIGUAFLAVANONE-A	IC50=4.6-7.1 ug/ml
ANCISTROBERTSONINE-C	IC50=4.5-10.1 uM
HEXAMETHOXYLIGNAN	IC50=37-50 ug/ml
(-)-CURINE	IC50=353 uM
CARYOPHYLLENE-16-ALPHA-OXIDE	IC50=345 uM
CHRYSOSPLENOL-D	IC50=32 uM
XANTHUMIN	IC50=31 ug/ml
GLINOSIDE-A	IC50=30-42 ug/ml
BISNORDIHYDROTOXIFERINE	IC50=3.8-4.5 uM
ETHYL-CRYPTOLEPIDONOATE	IC50=3.8 uM
TILIACORININE	IC50=3.5 ug/ml
HEPTAPHYLLINE	IC50=3-6 ug/ml
BONASPECTIN-D-4''-O-GLUCOSIDE	IC50=3-5 ug/ml

Chemical	Dosage
3,4,5-TRIMETHOXYPHENYL(6'-O-GALLOYL)-O->D-GLUCOPYRANOSIDE	IC50=3 uM
1-O-ACETYLNORPLUVIININE	IC50=28.3-34.2 ug/ml
URSOLIC-ACID	IC50=28-37 ug/ml
AJUGARIN-I	IC50=23 uM
CHRYSOSPENETIN	IC50=23 uM
(-)-CASSYTHICINE	IC50=2260-2290 ug/ml
ANOLIGNAN	IC50=20 uM
(+)-CRINAMINE	IC50=2.8-3.4 ug/ml
1-HYDROXYBENZOISCHROMAN	IC50=2.7 ug/ml
VOACOMINE	IC50=2.6->5 ug/ml
DIHYDROBRUCEAJAVIN-A	IC50=2.5 ug/ml
10,12-PEROXYCALAMENENE	IC50=2.3 uM
YOUNDAMINE-A	IC50=2.2 uM
CROSTPARINE	IC50=2.1-3.4 ug/ml
ANCISTROHEYNINE-A	IC50=2.1 ug/ml
ANCISTROBREVINE-B	IC50=2-4.7 uM
KORUPENSAMINE-E	IC50=2 ug/ml
(-)-CAPAURINE	IC50=1910-4340 ug/ml
BETULINIC-ACID	IC50=19-26 ug/ml
DIHYDROBRACHY-CALYXOLIDE	IC50=17 ug/ml
(-)-ISOLAURELINE	IC50=1610-2560 ug/ml
BONASPECTIN-E	IC50=16-17 ug/ml
BONASPECTIN-E/F	IC50=16-17 ug/ml
BONASPECTIN-F	IC50=16-17 ug/ml
MUZANZAGENIN	IC50=16-163 uM
ANCISTROBERTSONINE-A	IC50=15.9->23.7 uM
BONASPECTIN-G	IC50=15-17 ug/ml

Chemical	Dosage
BONASPECTIN-G/H	IC50=15-17 ug/ml
BONASPECTIN-H	IC50=15-17 ug/ml
ISOSTRYCHNINE	IC50=14->20 uM
VINCAMAJINE	IC50=138 uM
ALSTOUMERINE	IC50=13.1 uM
DIGITOLUTEIN	IC50=13-83 ug/ml
QUERCETIN	IC50=13-64
(-)-ANONAIN	IC50=1290-1900 ug/ml
NORFLUOROCURARINE	IC50=129 uM
(-)-DICENTRINE	IC50=1260-2550 ug/ml
8-EPIXANTHIN	IC50=125 ug/ml
ALSTOPHYLLINE	IC50=12.7-82.5 uM
FAGARAMIDE	IC50=12.3 ug/ml
NYASOL	IC50=12 uM
PATCHOULENE	IC50=108 uM
ISOTETRANDRINE	IC50=100 ug/ml
PIQUEROL-A	IC50=100 ug/ml
VILLALSTONINE-NB-OXIDE	IC50=10.7 uM
GOSSYPOL	IC50=10 uM
1-DEACETYLKHIVORIN	IC50=10 ug/ml
O-METHYLEXOSTEMIN	IC50=1.6-3.6 ug/ml
COWAXANTHONE	IC50=1.5 ug/ml
NARDISINONE	IC50=1.4 ug/ml
NARDOPEROXIDE	IC50=1.4 ug/ml
CORONARIDINE	IC50=1.3-2.2 ug/ml
EURYCOMANOL	IC50=1.2-4.9 uM
EURYCOMANONE	IC50=1.2-4.9 uM

Chemical	Dosage
ALSTOMACROLINE	IC50=1.1-10.2 uM
ALSTOMACROPHYLLINE	IC50=1.1 uM
KORUNDAMINE-A	IC50=1.1 ug/ml
BRUCEAJAVIN-A	IC50=1.1 ug/ml
BRUCEAJAVIN-B	IC50=1.1 ug/ml
18-HYDROXYSUNGUCINE	IC50=1-4 uM
BONASPECTIN-C	IC50=1-3 ug/ml
(-)-TETRAHYDROSTEPHABINE	IC50=1,940-2,230 ug/ml
(-)-ROEMEROLINE	IC50=1,780-3,150 ug/ml
PHEANTHINE	IC50=1,400 ug/ml
BONASPECTIN-C-4"-O-GLUCOSIDE	IC50=1 ug/ml
ALPHA-PEROXYACHIFOLIDE	IC50=1 ug/ml
1,2-DI-O-ACETYLCORINE	IC50=1 ug/ml
1-BETA-HYDROPEROXYISOBILIN	IC50=1 ug/ml
RUGOSAL-A	IC50=1 ug/ml
NEUROLENIN-A	IC50=0.9 uM
O-METHYLMACRALSTONINE	IC50=0.9 uM
GALIPININE	IC50=0.9 ug/ml
BENZOISOQUINOLONE-5-10-DIONE	IC50=0.84 ug/ml
CRYPTOHEPINE	IC50=0.8-1.2 uM
ISOCRYPTOLEPINE	IC50=0.8 uM
NIMBININ	IC50=0.77 ug/ml
7-O-DEMETHYLTETRANDRINE	IC50=0.74 ug/ml
TILIACORINE	IC50=0.67 ug/ml
ANCISTROLIKOKINE-C	IC50=0.62-0.92 ug/ml
ROEMREFRIDINE	IC50=0.6-0.7 uM
NEUROLENIN-C/D	IC50=0.6 uM

Chemical	Dosage
NEUROLENIN-B	IC50=0.6 uM
NOR-TILIACORINE-A	IC50=0.56 ug/ml
13-BETA-D-DIHYDROEURYCOMANOL	IC50=0.5-2.3 uM
VOACHALOTINE	IC50=0.5-0.8 ug/ml
OPHIOBOLIN-A	IC50=0.5-0.6 ug/ml
BRUCEINE-B	IC50=0.5 uM
BRUCEINE-C	IC50=0.5 uM
ELLAGIC-ACID	IC50=0.5 uM
BRUCEINE-D	IC50=0.5 uM
BRUCEINE-A	IC50=0.5 uM
THALIFABERINE	IC50=0.44-5.1 ug/ml
JATRORRHIZINE	IC50=0.42-1.61 ug/ml
MACROCARPAMINE	IC50=0.4-32.6 uM
EURYCOMANOL-2-O-BETA-D-GLUCOPYRANOSIDE	IC50=0.4-3.5 uM
3-O-BENZOYLHOSLOPPONE	IC50=0.4 ug/ml
VILLALSTONINE	IC50=0.3-2.9 uM
7-METHOXY-BETA-CARBOLINE-1-PROPIONIC-ACID	IC50=0.3-2.9 ug/ml
ISOSUNGUCINE	IC50=0.3-1.3 uM
LYCORINE	IC50=0.3-0.7 ug/ml
VOACANGINE	IC50=0.3-0.5 ug/ml
PLUMBAGIN	IC50=0.3 uM
OXYACANTHINE	IC50=0.3 ug/ml
TRICHIRUBRINE-A	IC50=0.3 ug/ml
(+)-1,2-DEHYDROTELOBINE	IC50=0.26-0.31 ug/ml
6-ALPHA-TIGLOYLOXYGLAUCARUBOL	IC50=0.257 ug/ml
CONOPHARYNGINE	IC50=0.24-0.29 ug/ml
CEDRONIN	IC50=0.23-0.25 ug/ml

Chemical	Dosage
(+)-OBABERINE	IC50=0.22-0.23 ug/ml
ANCISTROLIKOKINE-B	IC50=0.21-0.54 ug/ml
10'-HYDROXYUSAMBARENSINE	IC50=0.2-0.5 uM
KORUPENSAMINE-B	IC50=0.2-0.4 ug/ml
DEHATRINE	IC50=0.2 uM
7-EPIDIONCHOPHYLLINE-A	IC50=0.2 ug/ml
PRISTIMERIN	IC50=0.19-28 ug/ml
14-HYDROXYCHAPARRINONE	IC50=0.188 ug/ml
CELASTROL	IC50=0.181-0.254 ug/ml
PLUMBAGIN	IC50=0.178-0.189 ug/ml
(+)-TETRANDRINE	IC50=0.16-0.18 ug/ml
BERBERINE	IC50=0.14-0.36 ug/ml
BERBERASTINE	IC50=0.14-0.36 ug/ml
(+)-CEPHARANTHINE	IC50=0.14-0.30 ug/ml
ANCISTROLIKOKINE-A	IC50=0.14-0.19 ug/ml
AUGUSTINE	IC50=0.14-0.18 ug/ml
(+)-STEPHIBABERINE	IC50=0.13-0.31 ug/ml
THALIFABERIDINE	IC50=0.12-0.88 ug/ml
18-HYDROXYISOSUNGUCINE	IC50=0.1-0.9 uM
CLAUSARIN	IC50=0.1-0.7 ug/ml
PSYCHOTRINE	IC50=0.1-0.4 uM
COSTARICINE	IC50=0.1-0.3 ug/ml
CRYPTOLEPINE	IC50=0.1-0.2 uM
HYDRANTHINE-A	IC50=0.1 ug/ml
3-METHOXYSAMPANGINE	IC50=0.09-0.28 ug/ml
(+)-2-N-METHYLTELOBINE	IC50=0.09-0.26 ug/ml
28-NOR-IGOIGUESTERIN-17-CARBALDEHYDE	IC50=0.080-0.094 ug/ml

Chemical	Dosage
SAMADERINE-Z-CHAPARRINONE	IC50=0.071 uM
SAMADERINE-B-CHAPARRINONE	IC50=0.071 uM
(+)-2-NOR-THALRUGOSINE	IC50=0.07-0.13 ug/ml
(+)-THALRUGOSINE	IC50=0.06-0.23 ug/ml
(+)-DEPHNANDRINE	IC50=0.06-0.22 ug/ml
LIMACINE	IC50=0.05-0.79 ug/ml
3-HYDROXY-6'-DESMETHYL-9-O-METHYL-THALIFABORAMINE	IC50=0.05-0.24 ug/ml
THALIFASINE	IC50=0.05-0.24 ug/ml
(+)-ISOTETRANDRINE	IC50=0.05-0.17 ug/ml
(+)-2-NOR-CEPHARANTHINE	IC50=0.05-0.13 ug/ml
(+)-2-NOR-OBABERINE	IC50=0.05-0.09 ug/ml
(+)-2-NOR-ISOTETRANDRINE	IC50=0.05-0.07 ug/ml
15-DESACETYLLUNDULATONE	IC50=0.047 ug/ml
CHAPARRINONE	IC50=0.037 ug/ml
DIONCHOPELTINE-A	IC50=0.033 ug/ml
CRYPTOLEPINE	IC50=0.031 ug/ml
(-)-CYCLEAPELTINE	IC50=0.03-0.04 ug/ml
17-METHOXY-28-NORISOIGUESTERIN	IC50=0.028-0.37 ug/ml
ISOIGUESTEROL	IC50=0.023-0.54 ug/ml
SAMADERINE-E-CHAPARRINONE	IC50=0.021 uM
DIONCHOPHYLLINE-B	IC50=0.021 ug/ml
KORUPENSAMINE-A	IC50=0.02-0.6 ug/ml
(+)-HOMOAROMOLINE	IC50=0.02-0.29 ug/ml
AILANTHINONE	IC50=0.019 uM
SAMADERINE-X-CHAPARRINONE	IC50=0.015 uM
DIONCHOPHYLLINE-C	IC50=0.014 ug/ml
CEPHAELINE	IC50=0.011-0.027 uM

Chemical	Dosage
3-HYDROXY-THALIFABORAMINE	IC50=0.01-0.18 ug/ml
6'-DESMETHYL-THALIFABORAMINE	IC50=0.01-0.15 ug/ml
SARACHINE	IC50=0.01-0.07 ug/ml
FAGARONINE	IC50=0.009 ug/ml
TUBULOSINE	IC50=0.006-0.011 uM
BRUCEINE-A	IC50=0.005-0.011 ug/ml
BRUCEINE-B	IC50=0.005-0.011 ug/ml
BRUCEINE-C	IC50=0.005-0.011 ug/ml
GUTOLACTONE	IC50=0.004 ug/ml
BRUCEANTINOL	IC50=0.003 ug/ml
ISOFEBRIFUGINE	IC50=0.002-0.003 uM
FEBRIFUGINE	IC50=0.001-0.07 uM
SIMALIKALACTONE-D	IC50=0.001-0.002 ug/ml
NIMBOLIDE	IC50=0.001 ug/ml
JATRORRHIZINE-CHLORIDE	IC50= 0.36ug/ml
PALMITINE-CHLORIDE	IC50= 0.36ug/ml
CHLOROQUINE	IC50= 0.36 ug/ml
OSUPUPINE	IC50= 0.25ug/ml
EXIGUAFLAVONE-B	EC50=7 ug/ml
EXIGUAFLAVONE-A	EC50=4.6 ug/ml
UVARETIN	EC50=4.5 ug/ml
DIUVERETIN	EC50=4.2 ug/ml
2-(2,4-DIHYDROXYPHENYL)-5,6-METHYLENEDIOXYBENZOFURAN	EC50=27 ug/ml
MAACKIAIN	EC50=10 ug/ml
RUTAEVIN	82 ug/ml
GLAUCARUBINONE	6 ug/ml
PUNICALAGIN	1.5-8 ug/ml

Chemical	Dosage
ATAPHILLININE	--
AILANTHONE	--
PIPERINE	--
LICOCHALCONE-A	--
NIMBINOL	--