| **Table S5.** Flavonoids isolated from plants exhibiting antioxidant effects. | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Compound No** | | **Name** | | **Species** | | | | | | **Family** | **Reference** |
| F-1 | | (−)-epicatechin | | *Hypericum triquetrifolium* | | | | | | Hypericaceae | [1] |
| *Hypericum triquetrifolium* | | | | | | Hypericaceae | [2] |
| F-2 | | (−)-epigallocatechin 3-*O*-gallate | | *Rhodiola sachalinensis* | | | | | | Crassulaceae | [3] |
| F-3 | | (−)-eriodictyol | | *Eleocharis tuberosa* | | | | | | Cyperaceae | [4] |
| F-4 | | (2*R*)-eriodictyol 7,4-di-*O*-β-D-glucopyranoside | | *Viscum coloratum* | | | | | | Loranthaceae | [5] |
| F-5 | | (2*S*)-8-formyl-6-methylnaringenin | | *Cleistocalyx operculatus* | | | | | | Myrtaceae | [6] |
| F-6 | | (2*S*)-8-formyl-6-methylnaringenin 7-*O*-β-D-glucopyranoside | | *Cleistocalyx operculatus* | | | | | | Myrtaceae | [6] |
| F-7 | | (2*S*)-eriodictyol 7-*O*-β-D-glucopyranoside | | *Viscum coloratum* | | | | | | Loranthaceae | [5] |
| F-8 | | (2*S*)-homoeriodictyol 7,4-di-*O*-β-D-glucopyranoside | | *Viscum coloratum* | | | | | | Loranthaceae | [5] |
| F-9 | | (2*S*)-homoeriodictyol 7-*O*-β-D-glucopyranoside | | *Viscum coloratum* | | | | | | Loranthaceae | [5] |
| F-10 | | (2*S*)-naringenin 7-*O*-β-D-glucopyranoside | | *Viscum coloratum* | | | | | | Loranthaceae | [5] |
| F-11 | | 3′,4′,6,7,8-pentamethoxyflavone | | *Gutierrezia gayana* | | | | | | Asteraceae | [7] |
| F-12 | | 3′,4′,6,7,8-pentamethoxyflavone | | *Parastrephia quadrangularis* | | | | | | Asteraceae | [7] |
| F-13 | | 3′, 4′,5,7-tetrahydroxyflavonol | | *Callistemon salignus* | | | | | | Myrtaceae | [8] |
| F-14 | | 3-*O*-α-L-rhamnopyranosylkaempferol-7-*O*-β-D-glucopyranoside | | *Ligustrum sinense* | | | | | | Oleaceae | [9] |
| F-15 | | 3-*O*-α-L-rhamnopyranosylkaempferol-7-*O*-α-L-rhamnopyranoside | | *Ligustrum sinense* | | | | | | Oleaceae | [9] |
| F-16 | | 3-*O*-methylorobol | | *Cudrania tricuspidata* | | | | | | Moraceae | [10] |
| F-17 | | 4′,5-dihydroxy-3,3′,6,7,8-pentamethoxyflavone | | *Gutierrezia gayana* | | | | | | Asteraceae | [7] |
| *Parastrephia quadrangularis* | | | | | | Asteraceae | [7] |
| F-18 | | 4′-O-methylalpinumisoflavone | | *Cudrania tricuspidata* | | | | | | Moraceae | [10] |
| F-19 | | 5,4′,5′-trihydroxy-3,6,7,8- tetramethoxyflavone | | *Parastrephia quadrangularis* | | | | | | Asteraceae | [7] |
| *Gutierrezia gayana* | | | | | | Asteraceae | [7] |
| F-20 | | 5,6,4’-trihydroxy-7,3’-dimethoxyflavone | | *Anisomeles ovata* | | | | | | Lamiaceae | [11] |
| F-21 | | 5,7-dimethoxyflavanone-4’-*O*-[5’’-O-trans-cinnamoyl-β-D-apiofuranosyl]-β-D-glucopyranoside | | *Viscum album* | | | | | | Loranthaceae | [12] |
| F-22 | | 5-hydroxy-6,7,3’,4’-tetramethoxyflavone (HTF) | | *Citrus aurantium* | | | | | | Rutaceae | [13] |
| F-23 | | 5-methoxy-6,7-methylene dioxy-2’-hydroxyisoflavone | | *Celosia argentea* | | | | | | Amaranthaceae | [14] |
| F-24 | | 5-methylaureusidin | | *Eleocharis tuberosa* | | | | | | Cyperaceae | [4] |
| F-25 | | 5-prenylaureusidin | | *Eleocharis tuberosa* | | | | | | Cyperaceae | [4] |
| F-26 | | 6,8-dimethylluteolin | | *Eleocharis tuberosa* | | | | | | Cyperaceae | [4] |
| F-27 | | 6,8-diprenyleriodictyol | | *Dorstenia mannii* | | | | | | Moraceae | [15] |
| F-28 | | 6,8-diprenylgenistein | | *Cudrania tricuspidata* | | | | | | Moraceae | [10] |
| F-29 | | 6-isopentenylgenistein | | *Cudrania tricuspidata* | | | | | | Moraceae | [10] |
| F-30 | | 6-methyleriodictyol | | *Eleocharis tuberosa* | | | | | | Cyperaceae | [4] |
| F-31 | | 6-methylluteolin | | *Eleocharis tuberosa* | | | | | | Cyperaceae | [4] |
| F-32 | | 6-prenylnaringenin | | *Eleocharis tuberosa* | | | | | | Cyperaceae | [4] |
| F-33 | | 7-methoxykaempferol 3-*O*-β-D-glucopyranoside | | *Siraitia grosvenorii* | | | | | | Cucurbitaceae | [16] |
| F-34 | | 7-methoxykaempferol 3-*O*- α-L-rhamnopyranoside | | *Siraitia grosvenorii* | | | | | | Cucurbitaceae | [16] |
| F-35 | | adenodimerin A | | *Myrica adenophora* | | | | | | Myricaceae | [17] |
| F-36 | | afzelin | | *Lindera obtusiloba* | | | | | Lauraceae | [18] | |
| *Alnus japonica* | | | | | Betulaceae | [19] | |
| F-37 | | Alpinumisoflavone | | *Cudrania tricuspidata* | | | | | Moraceae | [10] | |
| F-38 | | apigenin | | *Verbena officinalis* | | | | | Verbenaceae | [20] | |
| *Sideritis congesta* | | | | | Lamiaceae | [21] | |
| *Sideritis arguta* | | | | | Lamiaceae | [21] | |
| *Origanum vulgare* | | | | | Lamiaceae | [22] | |
| *Macaranga gigantea* | | | | | Euphorbiaceae | [23] | |
| F-39 | | apigenin-6,8-di-*C*-glycoside | | *Sechium edule* | | | | | Cucurbitaceae | [24] | |
| F-40 | | apigenin-7- glucoside | | *Pyrus pyrifolia* | | | | | Rosaceae | [25] | |
| *Cudrania tricuspidata* | | | | | Moraceae | [10] | |
| *Origanum vulgare* | | | | | Lamiaceae | [22] | |
| F-41 | | artocarpesin | | *Cudrania tricuspidata* | | | | | Moraceae | [10] | |
| *Cudrania tricuspidata* | | | | | Moraceae | [10] | |
| F-42 | | astilbin | | *Smilacis Glabrae* | | | | | Smilacaceae | [26] | |
| F-43 | | astragalin | | *Toona sinensis* | | | | | Meliaceae | [26] | |
| F-44 | | baicalin | | *Smilacis Glabrae* | | | | | Smilacaceae | [26] | |
| F-45 | | broussoflavonol F | | *Macaranga gigantea* | | | | | Euphorbiaceae | [23] | |
| F-46 | | catechin | | *Cudrania tricuspidata* | | | | | Moraceae | [10] | |
| *Benincasa hispida* | | | | | Cucurbitaceae | [24] | |
| *Momordica charantia* | | | | | Cucurbitaceae | [24] | |
| F-47 | | chrysoeriol | | *Euterpe oleracea* | | | | | Arecaceae | [27] | |
| F-48 | | cyrtominetin | | *Eleocharis tuberosa* | | | | | Cyperaceae | [4] | |
| F-49 | | didymin | | *Origanum vulgare* | | | | | Lamiaceae | [22] | |
| F-50 | | dihydrokaempferol | | *Euterpe oleracea* | | | | | Arecaceae | [27] | |
| *Cudrania tricuspidata* | | | | | Moraceae | [10] | |
| F-51 | | dihydrokaempferol-7-*O*-β-D-glucopyranoside | | *Abies koreana* | | | | | Pinaceae | [28] | |
| F-52 | | diosmetin | | *Eleocharis tuberosa* | | | | | Cyperaceae | [4] | |
| F-53 | | dorsmanin C | | *Dorstenia mannii* | | | | | Moraceae | [29] | |
| F-54 | | dorsmanin F | | *Dorstenia mannii* | | | | | Moraceae | [29] | |
| F-55 | | epicatechin | | *Pyrus pyrifolia* | | | | | Rosaceae | [25] | |
| *Momordica charantia* | | | | | Cucurbitaceae | [24] | |
| F-56 | | epidorsmanin F | | *Dorstenia mannii* | | | | | Moraceae | [29] | |
| F-57 | | eriodyctiol-7-*O*-rutinoside | | *Foeniculum vulgare* | | | | | Apiaceae | [30] | |
| F-58 | | fortunellin | | *Citrus japonica* | | | | | Rutaceae | [31] | |
| F-59 | | genistein | | *Cudrania tricuspidata* | | | | | Moraceae | [10] | |
| F-60 | | gerontoisoflavone | | *Cudrania tricuspidata* | | | | | Moraceae | [10] | |
| F-61 | | glabranin | | *Melicope glabra* | | | | | Rutaceae | [32] | |
| F-62 | | glyasperin A | | *Macaranga gigantea* | | | | | Euphorbiaceae | [23] | |
| F-63 | | gossypetin-8-*O*-β-D-xylopyranoside | | *Sedum takesimense* | | | | | Crassulaceae | [33] | |
| F-64 | | guangsangon H | | *Morus macroura* | | | | | Moraceae | [34] | |
| F-65 | | guangsangon I | | *Morus macroura* | | | | | Moraceae | [34] | |
| F-66 | | guangsangon F | | *Morus macroura* | | | | | Moraceae | [34] | |
| F-67 | | guangsangon G | | *Morus macroura* | | | | | Moraceae | [34] | |
| F-68 | | herbacetin-7-*O*-α-L-rhamanopyranoside | | *Rhodiola sachalinensis* | | | | | Crassulaceae | [3] | |
| F-69 | | hesperetin | | *Eleocharis tuberosa* | | | | | Cyperaceae | [4] | |
| F-70 | | hesperidin | | *Citrus reticulata* Blanco | | | | | Rutaceae | [35] |
| F-71 | | homoorientin | | *Euterpe oleracea* Mart | | | | | Arecaceae | [27] |
| F-72 | | homovitexin | | *Shibataea chinensis* | | | | | Poaceae | [36] |
| *Pleioblastus kongosanensis* | | | | | Poaceae | [36] |
| F-73 | | hyperin | | *Fagopyrum esculentum* | | | | | Polygonaceae | [37] |
| F-74 | | hyperoside | | *Aruncus dioicus* | | | | | Rosaceae | [38] |
| F-75 | | I3,II8-biapigenin | | *Hypericum triquetrifolium* | | | | | Hypericaceae | [2] |
| *Hypericum triquetrifolium* | | | | | Hypericaceae | [1] |
| F-76 | | isoastilbin | | *Smilacis Glabrae* | | | | | Smilacaceae | [26] |
| F-77 | | isohyperoside | | *Alnus japonica* | | | | | Betulaceae | [19] |
| F-78 | | isoorientin | | *Colocasia esculenta* | | | | | Araceae | [39] |
| F-79 | | isoorientin | | *Pleioblastus kongosanensis* | | | | | Poaceae | [36] |
| F-80 | | isoorientin | | *Shibataea chinensis* | | | | | Poaceae | [36] |
| F-81 | | isorhamnetin-3-methylquercetin | | *Nasturtium officinale* | | | | | Brassicaceae | [40] |
| F-82 | | isorhamnetin | | *Zygophyllum simplex* | | | | | Zygophyllaceae | [41] |
| F-83 | | isorhamnetin-3-*O*-β-D-glucoside | | *Zygophyllum simplex* | | | | | Zygophyllaceae | [41] |
| F-84 | | isorhamnetin-3-*O*-β-D-rutinoside | | *Zygophyllum simplex* | | | | | Zygophyllaceae | [41] |
| F-85 | | isovitexin | | *Colocasia esculenta* | | | | | Araceae | [39] |
| F-86 | | kaempferol | | *Centella asiatica* | | | | | Apiaceae | [42] |
| *Siraitia grosvenorii* | | | | | Cucurbitaceae | [16] |
| *Opuntia ficus-indica* | | | | | Cactaceae | [43] |
| *Cyclocarya paliurus* | | | | | Juglangdaceae | [44] |
| *Sideritis congesta* | | | | | Lamiaceae | [21] |
| *Sideritis arguta* | | | | | Lamiaceae | [21] |
| *Rhodiola sachalinensis* | | | | | Crassulaceae | [3] |
| *Toona sinensis* | | | | | Meliaceae | [45] |
| F-87 | | kaempferol 3-*O*-galactopyranoside | | *Pinus densiflora* | | | | | Pinaceae | [46] |
| F-88 | | kaempferol 3-*O*-galactopyranoside 6″-acetate | | *Pinus densiflora* | | | | | Pinaceae | [46] |
| F-89 | | kaempferol 3-*O*-glucoside 7-*O*-rhamnoside | | *Hydrocotyle bonariensis* | | | | | Apiaceae | [42] |
| *Hydrocotyle bonariensis* | | | | | Apiaceae | [42] |
| F-90 | | kaempferol 3-*O*-α-L-rhamnopyranoside-7-*O*-[β-D-1🡪2)]-α-L-rhamnopyranoside | | *Siraitia grosvenorii* | | | | | Cucurbitaceae | [16] |
| F-91 | | kaempferol 3-*O*-rhamnoside | | *Hydrocotyle sibthorpioides* | | | | | Araliaceae | [42] |
| F-92 | | kaempferol 7-*O*-α-L-rhamnopyranoside | | *Siraitia grosvenorii* | | | | | Cucurbitaceae | [16] |
| *Toona sinensis* | | | | | Meliaceae | [45] |
| F-93 | | kaempferol-3-*O*-glucoside | | *Cyclocarya paliurus* | | | | | Juglangdaceae | [44] |
| *Hydrocotyle sibthorpioides* | | | | | Apiaceae | [42] |
| *Foeniculum vulgare* | | | | | Apiaceae | [30] |
| *Cudrania tricuspidata* | | | | | Moraceae | [10] |
| *Hypericum triquetrifolium* | | | | | Hypericaceae | [2] |
| *Hypericum triquetrifolium* | | | | | Hypericaceae | [1] |
| F-94 | | kaempferol-3-*O*-rutinoside | | *Foeniculum vulgare* | | | | | Apiaceae | [30] |
| F-95 | | kaempferol-7-*O*-α-L-rhamnoside | | *Cyclocarya paliurus* | | | | | Juglangdaceae | [44] |
| F-96 | | kaempherol 7-*O*-α-L-rhamanopyranoside | | *Rhodiola sachalinensis* | | | | | Crassulaceae | [3] |
| F-97 | | kampeferol diglucoside | | *Spathodea campanulata* | | | | | Bignoniaceae | [47] |
| F-98 | | ledebourin A | | *Ledebouria floribunda* | | | | | Asparagaceae | [48] |
| F-99 | | ledebourin B | | *Ledebouria floribunda* | | | | | Asparagaceae | [48] |
| F-100 | | ledebourin C | | *Ledebouria floribunda* | | | | | Asparagaceae | [48] |
| F-101 | | luteolin | | *Euterpe oleracea* | | | Arecaceae | | | [27] |
| *Begonia trichocarpa* | | | Begoniaceae | | | [49] |
| *Verbena officinalis* | | | Verbenaceae | | | [20] |
| *Cudrania tricuspidata* | | | Moraceae | | | [10] |
| *Origanum vulgare* | | | Lamiaceae | | | [22] |
| *Sedum takesimense* | | | Crassulaceae | | | [33] |
| F-102 | | luteolin 7-*O*-rutinoside | | *Sechium edule* | | | Cucurbitaceae | | | [24] |
| F-103 | | luteolin | | *Eleocharis tuberosa* | | | Cyperaceae | | | [4] |
| F-104 | | luteolin-7-*O*-β-D-glucoside | | *Zygophyllum simplex* | | | Zygophyllaceae | | | [41] |
| *Sedum takesimense* | | | Crassulaceae | | | [33] |
| F-105 | | myricetin | | *Sideritis congesta* | | | Lamiaceae | | | [21] |
| *Sideritis arguta* | | | Lamiaceae | | | [21] |
| *Myrica adenophora* | | | Myricaceae | | | [17] |
| *Sedum takesimense* | | | Crassulaceae | | | [33] |
| *Zygophyllum simplex* | | | Zygophyllaceae | | | [41] |
| *Myrica adenophora* | | | Myricaceae | | | [17] |
| *Cudrania tricuspidata* | | | Moraceae | | | [10] |
| F-106 | | nobiletin | | *Citrus reticulate* | | | Rutaceae | | | [35] |
| F-107 | | orientin | | *Euterpe oleracea* | | | Arecaceae | | | [27] |
| *Pleioblastus kongosanensis* | | | Poaceae | | | [36] |
| *Shibataea chinensis* | | | Poaceae | | | [36] |
| F-108 | | pedalitin | | *Verbena officinalis* | | | Verbenaceae | | | [20] |
| F-109 | | pelargonidin-3-*O*-glucoside | | *Cudrania tricuspidata* | | | Moraceae | | | [10] |
| F-110 | | pinoquercetin | | *Eleocharis tuberosa* | | | Cyperaceae | | | [4] |
| F-111 | | poncirin | | *Citrus japonica* | | | Rutaceae | | | [4] |
| F-112 | | quercetin | | *Centella asiatica* | | | Apiaceae | | | [42] |
| *Begonia trichocarpa* | | | Begoniaceae | | | [49] |
| *Euterpe oleracea* | | | Arecaceae | | | [27] |
| *Sideritis congesta* | | | Lamiaceae | | | [21] |
| *Sideritis arguta* | | | Lamiaceae | | | [21] |
| *Rosa sempervirens* | | | Rosaceae | | | [50] |
| *Eleocharis tuberosa* | | | Cyperaceae | | | [4] |
| *Toona sinensis* | | | Meliaceae | | | [45] |
| *Fagopyrum esculentum* | | | Polygonaceae | | | [37] |
| *Sedum takesimense* | | | Crassulaceae | | | [33] |
| *Smilacis Glabrae* | | | Smilacaceae | | | [26] |
| F-113 | | quercetin 3-*O*-β-D-glucuronide | | *Centella asiatica* | | | Apiaceae | | | [42] |
| *Cyclocarya paliurus* | | | Juglangdaceae | | | [44] |
| F-114 | | quercetin-3-diglucoside | | *Hydrocotyle sibthorpioides* | | | Apiaceae | | | [42] |
| F-115 | | quercetin-3-galactoside | | *Rosa sempervirens* | | | Rosaceae | | | [50] |
| *Hypericum triquetrifolium* | | | Hypericaceae | | | [1] |
| *Foeniculum vulgare* | | | Apiaceae | | | [30] |
| *Hypericum triquetrifolium* | | | Hypericaceae | | | [2] |
| F-116 | | quercetin-3-*O*-glucoside | | *Hydrocotyle bonariensis* | | | Apiaceae | | | [42] |
| *Hydrocotyle sibthorpioides* | | | Apiaceae | | | [42] |
| *Foeniculum vulgare* | | | Apiaceae | | | [30] |
| *Foeniculum vulgare* | | | Apiaceae | | | [30] |
| F-117 | | quercetin-3-*O*-rhamnoside | | | *Hydrocotyle sibthorpioides* | | | Apiaceae | | [42] |
| *Cryptocarya latifolia* | | | Lauraceae | | [51] |
| *Rosa sempervirens* | | | Rosaceae | | [50] |
| F-118 | | quercetin-3-*O*-rutinoside | | | *Foeniculum vulgare* | | | Apiaceae | | [30] |
| *Nasturtium officinale* | | | Brassicaceae | | [40] |
| *Cudrania tricuspidata* | | | Moraceae | | [10] |
| F-119 | | quercetin-3-xyloside | | | *Rosa sempervirens* | | | Rosaceae | | [50] |
| F-120 | | quercetin-rutinoside | | | *Hydrocotyle bonariensis* | | | Apiaceae | | [42] |
| F-121 | | quercetrin | | | *Toona sinensis* | | | Meliaceae | | [45] |
| *Lindera obtusiloba* | | | Lauraceae | | [18] |
| *Alnus japonica* | | | Betulaceae | | [19] |
| *Myrica adenophora* | | | Myricaceae | | [17] |
| *Phyllanthus urinaria* | | | Phyllanthaceae | | [52] |
| F-122 | | rhamnocitrin | | | *Phyllanthus urinaria* | | | Phyllanthaceae | | [52] |
| F-123 | | rhodalidin | | | *Sedum takesimense* | | | Crassulaceae | | [33] |
| F-124 | | rhodiolinin | | | | *Rhodiola sachalinensis* | | Crassulaceae | | [3] |
| F-125 | | rutin | | | | *Phyllanthus debilis* | | Phyllanthaceae | | [53] |
| *Gomortega keule* | | Gomortegaceae | | [54] |
| *Fagopyrum esculentum* | | Polygonaceae | | [37] |
| *Pyrus pyrifolia* | | Rosaceae | | [25] |
| *Phyllanthus urinaria* | | Phyllanthaceae | | [52] |
| *Smilacis Glabrae* | | Smilacaceae | | [26] |
| F-126 | | sanggenol B | | | | *Cudrania tricuspidata* | | Moraceae | | [10] |
| F-127 | | scutellarein | | | | *Verbena officinalis* | | Verbenaceae | | [20] |
| F-128 | | tangeretin | | | | *Citrus reticulate* | | Rutaceae | | [35] |
| F-129 | | taxifolin | | | | *Smilacis Glabrae* | | Smilacaceae | | [26] |
| F-130 | | vitexin | | | | *Colocasia esculenta* | | Araceae | | [39] |
| *Euterpe oleracea* | | Arecaceae | | [27] |
| *Sechium edule* | | Cucurbitaceae | | [24] |
| *Pleioblastus kongosanensis* | | Poaceae | | [36] |
| *Shibataea chinensis* | | Poaceae | | [36] |

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