

C LUTEOLIN

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LUTEOLIN

*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|--------------------------|-------|---------|----------|---------------------|---|
| Achillea millefolium | Plant | -- | -- | | Tunon, H., Thorsell, W., and Bohlin, L. 1993. Mosquito Repelling Activity of Compounds Occurring in Achillea millefolium L. (Asteraceae). Economic Botany 48(2): 111-120, 1994. |
| Acinos suaveolens | Shoot | 66.6 | 66.6 | 1.4142123318883386 | Jim Duke's personal files. |
| Agrimonia eupatoria | Plant | -- | -- | | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Alisma plantago-aquatica | Plant | -- | -- | | -- |
| Aloysia citrodora | Plant | -- | -- | | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Ammi majus | Plant | -- | -- | | -- |
| Anisochilus carnosus | Plant | -- | -- | | Wealth of India. |
| Apium graveolens | Leaf | -- | 80 | -0.5838472995588694 | -- |
| Apium graveolens | Pt | 0 | 400 | | -- |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|----------------------------|--------|---------|----------|---------------------|--|
| Apium graveolens | Seed | -- | -- | | -- |
| Arnica montana | Flower | -- | -- | | -- |
| Artemisia annua | Plant | -- | -- | | -- |
| Artemisia dracunculus | Plant | -- | -- | | Stitt, Paul. Why George should eat broccoli. |
| Aspalathus linearis | Shoot | 0.66 | 1 | -0.7054905387561778 | -- |
| Aspalathus linearis | Leaf | -- | -- | | -- |
| Baptisia tinctoria | Plant | -- | -- | | -- |
| Capsicum annuum | Fruit | 11 | 11 | | -- |
| Centaurea cyanus | Shoot | -- | -- | | Jim Duke's personal files. |
| Centaurea cyanus | Plant | -- | -- | | Wealth of India. |
| Chamaemelum nobile | Plant | -- | -- | | -- |
| Chrysanthemum x morifolium | Flower | -- | -- | | Wealth of India. |
| Citrus limon | Flower | -- | -- | | -- |
| Cnicus benedictus | Plant | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| Cnicus benedictus | Shoot | -- | -- | | Jim Duke's personal files. |
| Crataegus laevigata | Leaf | -- | -- | | -- |
| Crataegus laevigata | Bud | -- | -- | | -- |
| Crataegus laevigata | Fruit | -- | -- | | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|-------------------------|----------------|----------------|-----------------|---------------|--|
| Crataegus monogyna | Fruit | -- | -- | | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Crataegus monogyna | Tissue Culture | -- | -- | | -- |
| Crataegus rhipidophylla | Fruit | -- | -- | | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Crataegus rhipidophylla | Leaf | -- | -- | | -- |
| Crataegus rhipidophylla | Bud | -- | -- | | -- |
| Cuminum cyminum | Fruit | -- | -- | | -- |
| Cuminum cyminum | Seed | -- | -- | | -- |
| Cuminum cyminum | Leaf | -- | -- | | -- |
| Cuscuta reflexa | Plant | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| Cymbopogon citratus | Leaf | -- | -- | | Rizk, A.F.M., The Phytochemistry of the Flora of Qatar, Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986. |
| Cynara cardunculus | Leaf | -- | -- | | -- |
| Cytisus scoparius | Plant | -- | -- | | -- |
| Daphne genkwa | Flower | -- | -- | | -- |
| Daucus carota | Plant | -- | -- | | -- |
| Digitalis lanata | Leaf | -- | -- | | -- |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|--------------------------|--------------------|---------|----------|--------------------|--|
| Digitalis purpurea | Leaf | -- | -- | | -- |
| Echinacea angustifolia | Leaf | -- | -- | | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| Echinacea spp | Leaf | -- | -- | | Economic & Medicinal Plant Research, 5: 253. |
| Equisetum arvense | Plant | -- | -- | | -- |
| Equisetum arvense | Sprout Seedling | -- | -- | | Jim Duke's personal files. |
| Eriodictyon californicum | Leaf | -- | 39000 | 1.7319657809100542 | -- |
| Eucalyptus globulus | Leaf | -- | -- | | -- |
| Euphrasia officinalis | Shoot | -- | -- | | Jim Duke's personal files. |
| Ferula assa-foetida | Fruit | -- | -- | | -- |
| Ginkgo biloba | Leaf | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| Glechoma hederacea | Plant | -- | -- | | Jim Duke's personal files. |
| Harpagophytum procumbens | Root | -- | -- | | -- |
| Harpagophytum procumbens | Tuber | -- | -- | | -- |
| Hydnocarpus wightiana | Seed | -- | -- | | -- |
| Hypericum perforatum | Plant | -- | -- | | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Juncus effusus | Plant | -- | -- | | -- |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|----------------------------------|------------|---------|----------|---------------------|--|
| Lactuca sativa | Plant | -- | -- | | -- |
| Lavandula angustifolia | Plant | -- | -- | | Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980. |
| Lawsonia inermis | Plant | -- | -- | | Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989. |
| Lawsonia inermis | Leaf | -- | 29 | -0.5868818953220738 | -- |
| Linum usitatissimum | Plant | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| Lonicera japonica | Flower | -- | -- | | -- |
| Lycopodium clavatum | Plant | -- | -- | | Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp. |
| Malus domestica | Heart Wood | -- | -- | | -- |
| Marrubium vulgare | Plant | -- | -- | | Lawrence Review of Natural Products, Jun-88. |
| Marrubium vulgare | Shoot | -- | -- | | -- |
| Marrubium vulgare | Leaf | -- | -- | | -- |
| Matricaria recutita | Plant | -- | -- | | -- |
| Matricaria recutita | Flower | -- | -- | | -- |
| Mentha arvensis var. piperascens | Shoot | -- | -- | | Jim Duke's personal files. |
| Mentha spicata | Leaf | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| Mentha x piperita | Leaf | -- | -- | | -- |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|-----------------------|--------|---------|----------|---------------------|---|
| Mentha x rotundifolia | Shoot | -- | -- | | Jim Duke's personal files. |
| Nelumbo nucifera | Flower | -- | -- | | -- |
| Ocimum basilicum | Plant | -- | -- | | Stitt, Paul. Why George should eat broccoli. |
| Ocimum tenuiflorum | Leaf | 190 | 460 | -0.5612365860291112 | =ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp |
| Olea europaea | Leaf | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| Ononis spinosa | Shoot | -- | -- | | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| Opuntia ficus-indica | Flower | -- | -- | | Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar. |
| Opuntia ficus-indica | Pt | -- | -- | | -- |
| Origanum vulgare | Plant | -- | -- | | -- |
| Passiflora incarnata | Plant | -- | -- | | Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989. |
| Perilla frutescens | Leaf | -- | -- | | Abstract (See species file) |
| Perilla frutescens | Seed | -- | -- | | CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses |
| Phaseolus vulgaris | Plant | -- | -- | | -- |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|----------------------------|-------------|----------------|-----------------|---------------|--|
| Physalis alkekengi | Plant | -- | -- | | -- |
| Pimpinella anisum | Seed | 1250 | 1250 | | -- |
| Plantago major | Leaf | -- | -- | | -- |
| Plantago ovata | Leaf | -- | -- | | -- |
| Prunella vulgaris | Shoot | -- | -- | | -- |
| Punica granatum | Plant | -- | -- | | -- |
| Punica granatum | Leaf | -- | -- | | -- |
| Punica granatum | Fruit | -- | -- | | Seeram, N. P., Schulman, R. N., and Heber, D., eds. 2006. Pomegranates - Ancient Roots to Modern Medicine. Taylor & Francis. Boca Raton, FL. 244 pp. |
| Punica granatum | Pericarp | -- | -- | | Seeram, N. P., Schulman, R. N., and Heber, D., eds. 2006. Pomegranates - Ancient Roots to Modern Medicine. Taylor & Francis. Boca Raton, FL. 244 pp. |
| Rosmarinus officinalis | Leaf | -- | -- | | Phytochemistry, 37: 1463. |
| Rosmarinus officinalis | Plant | -- | -- | | -- |
| Salvia officinalis | Shoot | -- | -- | | -- |
| Salvia officinalis | Leaf | -- | -- | | -- |
| Santolina chamaecyparissus | Plant | -- | -- | | -- |
| Scutellaria galericulata | Plant | -- | -- | | Abstract (See species file) |
| Scutellaria lateriflora | Plant | -- | -- | | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |

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|---------------------------|-----------|---------|----------|---------------------|--|
| Silybum marianum | Shoot | -- | -- | | -- |
| Solanum tuberosum | Flower | -- | -- | | -- |
| Stellaria media | Shoot | -- | -- | | -- |
| Taraxacum officinale | Flower | -- | -- | | -- |
| Terminalia arjuna | Shoot | -- | 0.9 | -0.7087217931321604 | Pettit, G. R., Hoard, M. S., Doubek, D. L., Schmidt, J. M., Pettit, R. K., Tackett, L. P., Chapuis, J. C. 1996. Antineoplastic Agents 338. The Cancer Cell Growth Inhibitory Constituents of Terminalia arjuna (Combretaceae). J. Ethnopharmacol. 53 1: 57-63. |
| Teucrium polium | Plant | -- | -- | | Abstract (See species file) |
| Theobroma cacao | Plant | -- | -- | | J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991. |
| Thymus vulgaris | Plant | -- | -- | | -- |
| Thymus vulgaris | Leaf | -- | -- | | -- |
| Tragopogon porrifolius | Plant | -- | -- | | -- |
| Tridax procumbens | Flower | -- | -- | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| Trigonella foenum-graecum | Seed | -- | -- | | Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989. |
| Trigonella foenum-graecum | Plant | -- | -- | | -- |
| Valeriana officinalis | Root | -- | -- | | -- |
| Vitex agnus-castus | Root Bark | -- | -- | | -- |
| Vitis vinifera | Leaf | -- | -- | | -- |