

## Dr. Duke's Phytochemical and Ethnobotanical Databases

### List of Plants for RHAMNOSE

| Plant                                     | Part                | Low PPM | High PPM | StdDev | Reference   |
|---|---------------------|---------|----------|--------|---|
| <i>Abelmoschus esculentus</i>             | Fruit               |         | 600.0    |        | Wealth of India.  |
| <i>Acacia senegal</i>                     | Plant               |         |          |        | Pakistan Encyclopedia Planta Medica. 1986.  |
| <i>Acacia nilotica</i>                    | Fruit               |         |          |        | --  |
| <i>Achyranthes aspera</i>                 | Plant               |         |          |        | --  |
| <i>Agave americana</i>                    | Plant               |         |          |        | --  |
| <i>Ailanthus altissima</i>                | Plant               |         |          |        | --  |
| <i>Akebia quinata</i>                     | Stem                |         |          |        | --  |
| <i>Allium cepa</i>                        | Bulb                |         |          |        | Sinha, A. 1959. Chemical Examination of <i>Allium cepa</i> . I. Glycosidic and Sugar Fractions. Indian J. Appl. Chem., 22: 89-91.   |
| <i>Allium sativum</i> var. <i>sativum</i> | Bulb                |         |          |        | Wealth of India.  |
| <i>Aloe vera</i>                          | Leaf                |         |          |        | Waller, G. R., Mangiafico, S., Ritchey, C. R. 1978. A Chemical Investigation of <i>Aloe barbadensis</i> . Proc. Okla. Acad. Sci. 58: 69-.   |
| <i>Aloe vera</i>                          | Plant               |         |          |        | --  |
| <i>Ammi visnaga</i>                       | Plant               |         |          |        | --  |
| <i>Anacardium occidentale</i>             | Resin, Exudate, Sap |         |          |        | --  |
| <i>Anogeissus latifolia</i>               | Plant               |         |          |        | --  |
| <i>Artemisia dracunculus</i>              | Leaf                |         |          |        | --  |
| <i>Asclepias syriaca</i>                  | Seed                |         |          |        | --  |
| <i>Asparagus officinalis</i>              | Shoot               |         |          |        | --  |
| <i>Balanites aegyptiacus</i>              | Seed                |         |          |        | --  |
| <i>Balanites aegyptiacus</i>              | Fruit               |         |          |        | --  |
| <i>Boswellia serrata</i>                  | Resin, Exudate, Sap |         |          |        | Sabinsa: A series of well documented proprietary PR booklets, e.g. Sabinsa Corps. 1998. Bronchial Asthma - Its etiology and control with traditional herbal extracts. Sabinsa Corporation. Piscataway, NJ. 49 pp. |
| <i>Bryonia alba</i>                       | Root                |         |          |        | --  |
| <i>Calotropis</i> sp.                     | Leaf                |         |          |        | --  |

| Plant                   | Part   | Low PPM | High PPM | StdDev | Reference  |
|-------------------------|--------|---------|----------|--------|--|
| Capparis spinosa        | Flower |         |          |        | --   |
| Carum carvi             | Seed   |         |          |        | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| Catalpa ovata           | Wood   |         |          |        | --   |
| Centella asiatica       | Plant  |         |          |        | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.  |
| Coffea arabica          | Seed   |         |          |        | --   |
| Crataegus laevigata     | Fruit  |         |          |        | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.  |
| Crataegus rhipidophylla | Fruit  |         |          |        | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.  |
| Cuscuta reflexa         | Plant  |         |          |        | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.   |
| Daucus carota           | Root   |         |          |        | --   |
| Dianthus barbatus       | Shoot  |         |          |        | --   |
| Drimys winteri          | Plant  |         |          |        | --   |
| Euphorbia hirta         | Plant  |         |          |        | --   |
| Fagopyrum esculentum    | Leaf   |         | 28300.0  |        | --   |
| Ferula assa-foetida     | Gum    |         |          |        | --   |
| Ficus carica            | Leaf   |         |          |        | 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.   |
| Hedera helix            | Leaf   |         |          |        | --   |
| Helianthus annuus       | Seed   |         |          |        | --   |
| Hibiscus sabdariffa     | Flower |         |          |        | --   |

| Plant                | Part           | Low PPM | High PPM | StdDev | Reference  |
|----------------------|----------------|---------|----------|--------|--|
| Hippophae rhamnoides | Fruit          |         |          |        | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.                               |
| Hydrangea paniculata | Bark           |         |          |        | --   |
| Jatropha curcas      | Seed           |         |          |        | --   |
| Matricaria recutita  | Plant          |         |          |        | Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.             |
| Medicago sativa      | Plant          |         |          |        | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.                                |
| Mercurialis annua    | Plant          |         |          |        | --   |
| Musa x paradisiaca   | Fruit          |         |          |        | 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. |
| Nicotiana tabacum    | Leaf           |         |          |        | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.                               |
| Olea europaea        | Fruit          |         |          |        | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.                               |
| Ophiopogon japonicus | Tuber          |         |          |        | --   |
| Opuntia ficus-indica | Gum            |         |          |        | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.                               |
| Opuntia ficus-indica | Fruit          |         |          |        | --   |
| Panax ginseng        | Tissue Culture |         |          |        | --   |
| Panax ginseng        | Root           |         |          |        | --   |
| Phoenix dactylifera  | Fruit          |         |          |        | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.                               |

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|-------------------------|-------|---------|----------|--------|--|
| Plantago ovata          | Seed  |         | 70000.0  |        | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| Plantago major          | Plant |         |          |        | --   |
| Platycodon grandiflorum | Root  |         |          |        | --   |
| Polygala senega         | Root  |         |          |        | --   |
| Polypodium vulgare      | Root  |         |          |        | --   |
| Prunus domestica        | Fruit |         |          |        | USDA's Ag Handbook 8 and sequelae)   |
| Psidium guajava         | Fruit |         |          |        | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| Pteridium aquilinum     | Plant |         |          |        | --   |
| Rhus toxicodendron      | Plant |         |          |        | --   |
| Robinia pseudoacacia    | Leaf  |         |          |        | --   |
| Salix alba              | Wood  |         |          |        | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| Serenoa repens          | Fruit |         |          |        | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.  |
| Solanum tuberosum       | Plant |         |          |        | --   |
| Sterculia urens         | Gum   |         |          |        | --   |
| Terminalia bellirica    | Fruit |         |          |        | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| Terminalia chebula      | Fruit |         |          |        | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |

| Plant               | Part              | Low PPM | High PPM | StdDev | Reference   |
|---------------------|-------------------|---------|----------|--------|---|
| Teucrium polium     | Plant             |         |          |        | Rizk, A.F.M., The Phytochemistry of the Flora of Qatar, Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986.   |
| Teucrium scorodonia | Plant             |         |          |        | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.  |
| Theobroma cacao     | Plant             |         |          |        | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.  |
| Trifolium pratense  | Plant             |         |          |        | --  |
| Tussilago farfara   | Leaf              |         |          |        | --  |
| Urtica dioica       | Leaf              |         |          |        | 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. |
| Vigna radiata       | Seed              |         |          |        | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.  |
| Viscum album        | Plant             |         |          |        | --  |
| Zea mays            | Silk Stigma Style |         |          |        | --  |