

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Ulmus rubra*

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|----------------|------------|---------|----------|---------------------|---|
| 77 | ZINC | Bark | | | | -- |
| 4 | TIN | Bark | 2.6 | 16.0 | 0.4159231879939711 | -- |
| 31 | THIAMIN | Bark | | 5.0 | 2.1636579972822734 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |
| 35 | TANNIN | Bark | 30000.0 | 65000.0 | -0.6655743179937075 | -- |
| 5 | STARCH | Bark | 13120.0 | 210000.0 | 1.8603586442275013 | -- |
| 1 | SODIUM | Bark | 1.6 | 10.0 | -0.5262399113885332 | -- |
| 4 | SILICON | Bark | | | | -- |
| 60 | SELENIUM | Bark | 0.3 | 1.5 | -0.4079856019036855 | -- |
| 34 | SALICYLIC-ACID | Bark | | 23.0 | | Luo, W., Ang, C. Y. W., Schmitt, T. C., Betz, J. M. 1998. Determination of Salicin and Related Compounds in Botanical Dietary Supplements by Liquid Chromatography with Fluorescence Detection. J Aoac Int, 81(4): 757-762. |
| 15 | RIBOFLAVIN | Bark | 0.7 | 4.1 | 0.31889318866969746 | -- |
| 14 | POTASSIUM | Bark | 444.0 | 2710.0 | -0.7118794255547221 | -- |
| 2 | PHYTOSTEROLS | 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. |
| 4 | PHOSPHORUS | Bark | 36.0 | 220.0 | -0.8274253906754868 | -- |
| 39 | NIACIN | Bark | 33.0 | 200.0 | 2.104604179683411 | -- |
| 3 | MUCILAGE | Bark | 41000.0 | 350000.0 | 1.0 | -- |
| 14 | MANGANESE | Bark | 0.3 | 1.9 | -0.6638645681955431 | -- |
| 65 | MAGNESIUM | Bark | 95.0 | 580.0 | -0.7978764763909307 | -- |
| 6 | IRON | Bark | | | | -- |
| 7 | GLUCOSE | Bark | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |

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|------------------|-----------------|------------|---------|----------|----------------------|--|
| 8 | FRUCTOSE | Bark | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 15 | FIBER | Bark | | 92000.0 | -0.9340975708942237 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |
| 2 | COBALT | Bark | 0.3 | 1.8 | -0.49763977280155086 | -- |
| 1 | CITROSTADIENOL | Wood | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 24 | CHROMIUM | Bark | 0.2 | 1.0 | -0.48598491785883197 | -- |
| 1 | CHOLESTEROL | Wood | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 2 | CAMPESTEROL | Wood | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 4 | CALCIUM-OXALATE | 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. |
| 28 | CALCIUM | Bark | 1602.0 | 9770.0 | -0.8508922219141178 | -- |
| 47 | BETA-SITOSTEROL | Wood | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 53 | BETA-CAROTENE | Bark | 4.0 | 25.0 | 0.7778259438536158 | -- |
| 112 | ASCORBIC-ACID | Bark | | 0.0 | -1.0104899665727316 | -- |
| 5 | ALUMINUM | Bark | 3.6 | 22.0 | -0.7439000789249773 | -- |