

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Panax japonicus*

| Activities Count | Chemical                          | Plant Part | Low PPM | High PPM | StdDev               | Refernce Citation |
|------------------|-----------------------------------|------------|---------|----------|----------------------|-------------------|
| 0                | ARABINOSE                         | Rhizome    |         |          |                      | --                |
| 47               | BETA-SITOSTEROL                   | Rhizome    |         |          |                      | --                |
| 28               | CALCIUM                           | Rhizome    |         | 7000.0   | 0.016188269549290316 | --                |
| 2                | CAMPESTEROL                       | Rhizome    |         |          |                      | --                |
| 0                | CAMPESTEROL-6'-LINOLENYLGLUCOSIDE | Rhizome    |         |          |                      | --                |
| 0                | CAMPESTEROL-6'-LINOYLGLUCOSIDE    | Rhizome    |         |          |                      | --                |
| 0                | CAMPESTEROL-6'-OLEYLGLUCOSIDE     | Rhizome    |         |          |                      | --                |
| 0                | CAMPESTEROL-6'-PALMITYLGLUCOSIDE  | Rhizome    |         |          |                      | --                |
| 0                | CAMPESTEROL-6'-STEARYLGLUCOSIDE   | Rhizome    |         |          |                      | --                |
| 0                | CHIKUSETSUSAPONIN-I-A             | Rhizome    |         |          |                      | --                |
| 0                | CHIKUSETSUSAPONIN-I-B             | Rhizome    |         |          |                      | --                |
| 0                | CHIKUSETSUSAPONIN-III             | Rhizome    |         |          |                      | --                |
| 4                | CHIKUSETSUSAPONIN-IV              | Rhizome    |         |          |                      | --                |
| 0                | CHIKUSETSUSAPONIN-IV-A            | Rhizome    |         | 1900.0   |                      | --                |
| 0                | CHIKUSETSUSAPONIN-L-10            | Leaf       |         |          |                      | --                |
| 0                | CHIKUSETSUSAPONIN-L-5             | Leaf       |         |          |                      | --                |
| 0                | CHIKUSETSUSAPONIN-L-9A            | Leaf       |         |          |                      | --                |
| 0                | CHIKUSETSUSAPONIN-LN-4            | Leaf       |         |          |                      | --                |
| 0                | CHIKUSETSUSAPONIN-LT-5            | Leaf       |         |          |                      | --                |
| 0                | CHIKUSETSUSAPONIN-LT-8            | Leaf       |         |          |                      | --                |
| 1                | CHIKUSETSUSAPONIN-V               | Leaf       |         | 9500.0   |                      | --                |
| 12               | COPPER                            | Rhizome    |         | 6.0      | -1.0163354197605934  | --                |
| 0                | GINSENOSIDE-F-1                   | Leaf       |         |          |                      | --                |
| 4                | GINSENOSIDE-R-O                   | Rhizome    |         |          |                      | --                |
| 3                | GINSENOSIDE-RD                    | Rhizome    |         | 6700.0   | 1.0                  | --                |

| Activities Count | Chemical                               | Plant Part | Low PPM | High PPM | StdDev                | Reference Citation |
|------------------|--|------------|---------|----------|-----------------------|--------------------|
| 3                | GINSENSIDE-RG-2                        | Rhizome    |         |          |                       | --                 |
| 7                | GLUCOSE                                | Rhizome    |         |          |                       | --                 |
| 4                | GLUCURONIC-ACID                        | Rhizome    |         |          |                       | --                 |
| 6                | IRON                                   | Rhizome    |         | 360.0    | 0.0034515428882036818 | --                 |
| 65               | MAGNESIUM                              | Rhizome    |         | 2400.0   | 0.7792116801588138    | --                 |
| 0                | MAJONOSIDE-R1                          | Rhizome    |         | 700.0    |                       | --                 |
| 0                | MAJONOSIDE-R2                          | Rhizome    |         | 1100.0   |                       | --                 |
| 14               | MANGANESE                              | Rhizome    |         | 43.0     | -0.5508667218680063   | --                 |
| 0                | NOTOGINSENSIDE-R2                      | Rhizome    |         | 300.0    |                       | --                 |
| 64               | OLEANOLIC-ACID                         | Rhizome    |         |          |                       | --                 |
| 0                | PANATOXIN                              | Rhizome    |         |          |                       | --                 |
| 14               | POTASSIUM                              | Rhizome    |         | 11000.0  | -0.2178426510161099   | --                 |
| 5                | SAPONINS                               | Rhizome    |         | 70000.0  | 1.0                   | --                 |
| 0                | SITOSETROL-6'-<br>STEARYLGLUCOSIDE     | Rhizome    |         |          |                       | --                 |
| 0                | SITOSTEROL-6'-<br>LINOLENYLGLUCOSIDE   | Rhizome    |         |          |                       | --                 |
| 0                | SITOSTEROL-6'-<br>LINOLYLGLUCOSIDE     | Rhizome    |         |          |                       | --                 |
| 0                | SITOSTEROL-6'-<br>OLEYLGLUCOSIDE       | Rhizome    |         |          |                       | --                 |
| 1                | SODIUM                                 | Rhizome    |         | 499.0    | -0.05435655854849023  | --                 |
| 0                | STIGMASTEROL-6'-<br>LINOLENYLGLUCOSIDE | Rhizome    |         |          |                       | --                 |
| 0                | STIGMASTEROL-6'-<br>LINOLYLGLUCOSIDE   | Rhizome    |         |          |                       | --                 |
| 0                | STIGMASTEROL-6'-<br>OLEYLGLUCOSIDE     | Rhizome    |         |          |                       | --                 |
| 0                | STIGMASTEROL-6'-<br>PALMITYLGLUCOSIDE  | Rhizome    |         |          |                       | --                 |
| 0                | STIGMASTEROL-6'-<br>STEARYLGLUCOSIDE   | Rhizome    |         |          |                       | --                 |
| 77               | ZINC                                   | Rhizome    |         | 20.0     | -0.3838003908830688   | --                 |