

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in Panax ginseng

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|---|--------------------|---------|----------|--------|--------------------|
| 0 | (+)-AROMADENDRENE | Shoot | -- | -- | | |
| 0 | (+)-BETA-BISABOLENE | Shoot | -- | -- | | |
| 0 | (+)-CAMPHERE | Shoot | -- | -- | | |
| 0 | (-)-BETA-PANASINSENE | Root Essent. Oil | -- | -- | | |
| 0 | 1,3-DIMETHYL-BENZENE | Shoot | -- | -- | | |
| 0 | 1,8-CINEOL | Root Essent. Oil | -- | -- | | |
| 0 | 1-1-DIETHOXY-ETHANE | Shoot | -- | -- | | |
| 0 | 1-2-DIBUTYL-PHENYL-FORMATE | Shoot | -- | -- | | |
| 0 | 1-ETHOXY-BUTANE | Shoot | -- | -- | | |
| 0 | 1-ETHOXY-PENTANE | Shoot | -- | -- | | |
| 0 | 1-O-ALPHA-GLUCOSIDE-PROPAN-2-ON-1-OL | Root | -- | -- | | |
| 0 | 10-ACETYL-PANAXYTRIOL | Root | -- | -- | | |
| 0 | 2-3-3-TRIMETHYL-PENTA-1-4-DIENE | Shoot | -- | -- | | |
| 0 | 2-5-DIMETHYL-TRIDECANE | Plant | -- | -- | | |
| 0 | 2-5-DIMETHYL-TRIDECANE | Root Essent. Oil | -- | -- | | |
| 0 | 2-6-DIETHYL-PYRAZINE | Root | -- | -- | | |
| 0 | 2-6-DIMETHYL-6-(4-METHYL-3-PENTENYL)-BICYCLO-(3.1.1)-HEPT-2-ENE | Flower Essent. Oil | -- | -- | | |
| 0 | 2-6-DITERT-BUTYL-4-METHYL-PHENOL | Root Essent. Oil | -- | 14000 | | |
| 0 | 2-6-DITERT-BUTYL-4-METHYL-PHENOL | Flower Essent. Oil | -- | 14000 | | |
| 0 | 2-ACETYL-PYRROLE | Shoot | -- | -- | | |
| 0 | 2-ETHANOYL-FURAN | Shoot | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|--|------------------|---------|----------|--------|---|
| 0 | 2-ETHYL-5-METHYL-PYRAZINE | Root | -- | -- | | |
| 0 | 2-ETHYL-6-METHYL-PYRAZINE | Root | -- | -- | | |
| 0 | 2-GLUCOGINSENOSIDE-RF | Root | 50 | 50 | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | 2-ISO-BUTYL-3-METHOXY-PYRAZINE | Root | -- | -- | | |
| 0 | 2-ISO-PROPYL-3-METHOXY-PYRAZINE | Root | -- | -- | | |
| 0 | 2-ISO-PROPYL-5-METHYL-ANISOLE | Root | -- | -- | | |
| 0 | 2-KETO-OCTA-TRANS-3-TRANS-5-DIENE | Shoot | -- | -- | | |
| 0 | 2-METHYL-3-O-BETA-D-GLUCOSIDE-PYR-4-ONE | Plant | -- | -- | | |
| 0 | 2-METHYL-HEXANOIC-ACID-EHTYL-ESTER | Root | -- | -- | | |
| 0 | 2-METHYL-TETRADECANE | Root Essent. Oil | -- | 29000 | | |
| 0 | 2-SEC-BUTYL-3-METHOXY-PYRAZINE | Root | -- | -- | | |
| 0 | 20(R)-GINSENOSIDE-RG-3 | Fruit | -- | -- | | |
| 0 | 20(R)-GINSENOSIDE-RH-1 | Rhizome | -- | -- | | |
| 0 | 20(R)-GINSENOSIDE-RH-1 | Fruit | -- | -- | | |
| 0 | 20(R)-GINSENOSIDE-RH-2 | Shoot | -- | -- | | |
| 0 | 20(R)-GINSENOSIDE-RH-2 | Leaf | 6.7 | 10 | | |
| 0 | 20(R)-PROTOPANAXADIOL | Leaf | 0.1 | 1.4 | | |
| 0 | 20(R)-PROTOPANAXATRIOL | Fruit | -- | -- | | |
| 0 | 20(R)-PROTOPANAXATRIOL | Leaf | 1.4 | 12.5 | | |
| 0 | 20(S)-GINSENOSIDE-RH-2 | Leaf | -- | 7 | | |
| 0 | 20(S)-PROTOPANAXADIOL-3-O-BETA-D-GLUCOPYRANOSIDE | Root | -- | 10 | | |
| 0 | 20-(S)-DIHYDRO-PROTOPANAXATRIONE | Root | -- | -- | | |
| 0 | 20-GLUCO-GINSENOSIDE | Leaf | -- | -- | | |
| 0 | 20-GLUCOSYL-GINSENOSIDE | Flower | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|--|----------------|---------|----------|--------|--------------------|
| 0 | 20-GLUCOSYL-GINSENOSE | Root | -- | 50 | | |
| 0 | 22-TRANS-DEHYDRO-24-METHYL-CHOLESTEROL | Seed Oil | -- | -- | | |
| 0 | 24-ETHYL-22-TRANS-DEHYDRO-CHOLESTEROL | Seed Oil | -- | -- | | |
| 0 | 24-ETHYL-24(25)-DEHYDRO-CHOLESTEROL | Seed Oil | -- | -- | | |
| 0 | 24-ETHYL-CHOLESTEROL | Seed Oil | -- | -- | | |
| 0 | 24-METHYL-CHOLESTEROL | Seed Oil | -- | -- | | |
| 0 | 24-METHYLENE-24-DIHYDRO-LANOSTEROL | Seed Oil | -- | -- | | |
| 5 | 24-METHYLENE-CYCLOARTANOL | Seed Oil | -- | -- | | |
| 0 | 28-ISOFUCOSTEROL | Seed Oil | -- | -- | | |
| 0 | 3-12-DIETHYL-TETRADECA-2-5-9-TRIENE | Shoot | -- | -- | | |
| 0 | 3-9-10-TRIACETOXY-HEPTADECA-1-16-DIENE-4-6-DIYNE | Root | -- | -- | | |
| 0 | 3-DIHYDRO-PANAXACOL | Tissue Culture | -- | 2.5 | | |
| 0 | 3-ISO-PROPYL-2-METHOXY-5-METHYL-PYRAZINE | Root | -- | -- | | |
| 0 | 3-SEC-BUTYL-2-METHOXY-5-METHYL-PYRAZINE | Root | -- | -- | | |
| 0 | 4-METHYL-METHOXY-BENZENE | Shoot | -- | -- | | |
| 0 | 4-METHYL-THIAZOLE-5-ETHANOL | Root | -- | -- | | |
| 0 | 4-OXY-OCT-6-ENOIC-ACID-METHYL-ESTER | Root | -- | -- | | |
| 0 | 5-ETHYL-2-3-DIMETHYL-PYRAZINE | Root | -- | -- | | |
| 0 | 6-ALKYNE-HEXADEC-4-TRANS-ENE | Shoot | -- | -- | | |
| 0 | 6-METHYL-2-KETO-HEPTA-3-5-DIENE | Shoot | -- | -- | | |
| 0 | 6-METHYL-HEPT-6-EN-2-ONE | Shoot | -- | -- | | |
| 0 | 7-ALKYNE-2-HYDROXY-NONA-TRANS-3-TRANS-5-DIENE | Shoot | -- | -- | | |
| 0 | 9-10-EPOXY-HEPTADEC-1-16-DIENE-4-6-DIYN-3-ONE | Root | -- | -- | | |
| 0 | 9-10-EPOXY-HEPTADECA-1-16-DIENE-4-6-DIYN | Root | -- | -- | | |
| 16 | ACETIC-ACID | Shoot | -- | -- | | |
| 0 | ACETIC-ACID-ETHYL-ESTER | Shoot | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|------------------------|--------------------|---------|----------|---------------------|--------------------|
| 0 | ACETYL-PANAXYDOL | Root | -- | 2.1 | -1.0000000000000002 | |
| 0 | ACIDIC-PEPTIDES | Flower | -- | -- | | |
| 11 | ADENINE | Root | -- | -- | | |
| 28 | ADENOSINE | Rhizome | -- | -- | | |
| 28 | ADENOSINE | Root | -- | 90 | 1 | |
| 0 | ADENYL-CYCLASE | Root | -- | -- | | |
| 3 | ALANINE | Root | -- | -- | | |
| 3 | ALANINE | Leaf | -- | -- | | |
| 0 | ALLO-AROMADENDRENE | Root Essent. Oil | -- | -- | | |
| 0 | ALLO-AROMADENDRENE | Plant | -- | -- | | |
| 0 | ALLO-AROMADENDRENE | Flower Essent. Oil | -- | -- | | |
| 0 | ALLO-AROMADENDRENE | Shoot | -- | -- | | |
| 0 | ALLO-AROMADENDRENE | Shoot Essent. Oil | -- | -- | | |
| 0 | ALPHA-AMYLASE | Root | -- | -- | | |
| 0 | ALPHA-BERGAMOTENE | Shoot | -- | -- | | |
| 0 | ALPHA-COPAENE | Flower Essent. Oil | -- | -- | | |
| 0 | ALPHA-COPAENE | Shoot Essent. Oil | -- | -- | | |
| 0 | ALPHA-CUBEBENE | Flower Essent. Oil | -- | -- | | |
| 0 | ALPHA-CUBEBENE | Shoot | -- | -- | | |
| 0 | ALPHA-FARNESENE | Flower Essent. Oil | -- | 14000 | | |
| 0 | ALPHA-FRUCTOSE | Root | -- | -- | | |
| 0 | ALPHA-GAMMA-DIPALMITIN | Root | -- | -- | | |
| 0 | ALPHA-GLUCOSE | Root | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|--|--------------------|---------|----------|--------|--|
| 0 | ALPHA-GUAIENE | Root Essent. Oil | -- | 40000 | 1 | |
| 0 | ALPHA-GUAIENE | Root | -- | -- | | |
| 0 | ALPHA-GUAIENE | Flower Essent. Oil | -- | 55000 | | |
| 2 | ALPHA-HUMULENE | Root Essent. Oil | -- | -- | | |
| 2 | ALPHA-HUMULENE | Plant | -- | -- | | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 0 | ALPHA-MALTOSE | Root | -- | -- | | |
| 0 | ALPHA-MALTOSYL-BETA-D-FRUCTOFURANOSIDE | Root | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | ALPHA-NEOCLOVENE | Root Essent. Oil | -- | -- | | |
| 0 | ALPHA-NEOCLOVENE | Plant | -- | -- | | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 0 | ALPHA-PANASINSENE | Root | -- | 17.6 | | |
| 0 | ALPHA-PANASINSENE | Root Essent. Oil | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|--------------------|--------------------|---------|----------|--------|--|
| 0 | ALPHA-PANASINSENE | Plant | -- | -- | | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 11 | ALPHA-PHELLANDRENE | Root | -- | -- | | |
| 11 | ALPHA-PHELLANDRENE | Root Essent. Oil | -- | -- | | |
| 11 | ALPHA-PHELLANDRENE | 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 | ALPHA-PINENE | Root | -- | -- | | |
| 28 | ALPHA-PINENE | Root Essent. Oil | -- | -- | | |
| 0 | ALPHA-PYRROLIDONE | Root | -- | -- | | |
| 0 | ALPHA-SANTALENE | Root Essent. Oil | -- | -- | | |
| 0 | ALPHA-SANTALENE | Flower Essent. Oil | -- | -- | | |
| 0 | ALPHA-SANTALENE | Shoot Essent. Oil | -- | -- | | |
| 3 | ALPHA-SELINENE | Root Essent. Oil | -- | -- | | |
| 3 | ALPHA-SELINENE | Flower Essent. Oil | -- | -- | | |
| 3 | ALPHA-SELINENE | Shoot | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|------------------------------------|--------------------|---------|----------|----------------------|---|
| 3 | ALPHA-SELINENE | Plant | -- | -- | | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 5 | ALUMINUM | Root | 5 | 22 | -0.30067595885157333 | |
| 0 | AMINO-ACIDS | Root | -- | -- | | |
| 0 | AMINO-ACIDS | Tissue Culture | -- | -- | | |
| 0 | AMINO-ACIDS | Flower | -- | -- | | |
| 0 | ARACHIDIC-ACID | Root | -- | -- | | |
| 14 | ARGININE | Root | -- | -- | | |
| 14 | ARGININE | Leaf | -- | -- | | |
| 0 | AROMADENDRANE-4-BETA-10-ALPHA-DIOL | Plant | -- | 3 | | |
| 3 | AROMADENDRENE | Flower Essent. Oil | -- | -- | | |
| 3 | AROMADENDRENE | Root Essent. Oil | -- | -- | | |
| 3 | AROMADENDRENE | Plant | -- | -- | | |
| 2 | ARSENIC | Root | -- | -- | | |
| 112 | ASCORBIC-ACID | Root | -- | -- | -0.6459735820044326 | |
| 112 | ASCORBIC-ACID | Leaf | -- | -- | | |
| 0 | ASH | Root | 10600 | 50000 | -0.5013998487298318 | |
| 0 | ASPARTASE | Root | -- | -- | | |
| 3 | ASPARTIC-ACID | Root | -- | -- | | |
| 3 | ASPARTIC-ACID | Leaf | -- | -- | | |
| 0 | AVENASTEROL | Seed Oil | -- | -- | | |
| 10 | AZULENE | Shoot | -- | -- | | |
| 1 | BEHENIC-ACID | Root | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|---------------------------------|--------------------|---------|----------|--------|--------------------|
| 24 | BENZALDEHYDE | Shoot | -- | -- | | |
| 0 | BENZYL-BETA-PRIMEVEROSIDE | Root | -- | 47 | | |
| 0 | BETA-AMYLASE | Root | -- | -- | | |
| 9 | BETA-AMYRIN | Seed Oil | -- | -- | | |
| 6 | BETA-BISABOLENE | Root Essent. Oil | -- | -- | | |
| 6 | BETA-BISABOLENE | Plant | -- | -- | | |
| 0 | BETA-BOURBONENE | Flower Essent. Oil | -- | -- | | |
| 0 | BETA-BOURBONENE | Shoot | -- | -- | | |
| 53 | BETA-CAROTENE | Root | -- | -- | | |
| 0 | BETA-CARYOPHYLLENE | Flower Essent. Oil | -- | -- | | |
| 0 | BETA-CARYOPHYLLENE | Shoot | -- | -- | | |
| 0 | BETA-CUBEBENE | Flower Essent. Oil | -- | -- | | |
| 0 | BETA-CUBEBENE | Shoot | -- | -- | | |
| 5 | BETA-ELEMENE | Root | -- | -- | | |
| 5 | BETA-ELEMENE | Root Essent. Oil | -- | 150000 | 1 | |
| 5 | BETA-ELEMENE | Shoot | -- | -- | | |
| 5 | BETA-ELEMENE | Flower Essent. Oil | -- | 29000 | | |
| 0 | BETA-ELEMENENE | Flower Essent. Oil | -- | -- | | |
| 13 | BETA-EUDESOL | Plant | -- | -- | | |
| 13 | BETA-EUDESOL | Root Essent. Oil | -- | -- | | |
| 0 | BETA-FARNES-(3-CIS-6-TRANS)-ENE | Shoot | -- | -- | | |
| 0 | BETA-FARNES-CIS-ENE | Shoot | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|----------------|--------------------|---------|----------|--------------------|---|
| 0 | BETA-FARNESENE | Root | -- | -- | | |
| 0 | BETA-FARNESENE | Flower Essent. Oil | -- | 43000 | | |
| 0 | BETA-FARNESENE | Root Essent. Oil | -- | 85000 | -1 | |
| 0 | BETA-FARNESENE | Leaf | -- | 1000 | 0.3101066332955471 | |
| 0 | BETA-FARNESENE | Stem | -- | 1000 | | |
| 0 | BETA-FARNESENE | Plant | -- | -- | | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 0 | BETA-FRUCTOSE | Root | -- | -- | | |
| 0 | BETA-GLUCOSE | Root | -- | -- | | |
| 0 | BETA-GUAIENE | Root Essent. Oil | -- | -- | | |
| 0 | BETA-GUAIENE | Plant | -- | -- | | |
| 0 | BETA-GURJUNENE | Root Essent. Oil | -- | 60000 | -1 | |
| 0 | BETA-GURJUNENE | Plant | -- | -- | | |
| 0 | BETA-HUMULENE | Root Essent. Oil | -- | -- | | |
| 0 | BETA-HUMULENE | Plant | -- | -- | | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 0 | BETA-MAALIENE | Flower Essent. Oil | -- | -- | | |
| 0 | BETA-MAALIENE | Root | -- | -- | | |
| 0 | BETA-MAALIENE | Shoot | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|------------------|--------------------|---------|----------|--------|---|
| 0 | BETA-MALTOSE | Root | -- | -- | | |
| 0 | BETA-NEOCLOVENE | Root Essent. Oil | -- | -- | | |
| 0 | BETA-NEOCLOVENE | Plant | -- | -- | | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 0 | BETA-PANASINSENE | Root | -- | 10.2 | | |
| 0 | BETA-PANASINSENE | Plant | -- | -- | | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 0 | BETA-PATCHOULENE | Root Essent. Oil | -- | -- | | |
| 0 | BETA-PATCHOULENE | Root | -- | -- | | |
| 2 | BETA-SANTALENE | Flower Essent. Oil | -- | -- | | |
| 3 | BETA-SELINENE | Root Essent. Oil | -- | 80000 | | |
| 3 | BETA-SELINENE | Plant | -- | -- | | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 47 | BETA-SITOSTEROL | Root | -- | -- | | |
| 47 | BETA-SITOSTEROL | Fruit | -- | -- | | |
| 47 | BETA-SITOSTEROL | Rhizome | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|--|--------------------|---------|----------|---------------------|---|
| 0 | BETA-SITOSTEROL-3-O-BETA-D-GLUCOSIDE | Root | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | BETA-SITOSTERYL-GLUCOSIDE | Plant | -- | -- | | |
| 0 | BICYCLO-(2.1.0)-PENTANE-5-CARBOXYLIC-ACID-1-METHYL-ETHYL-ESTER | Shoot | -- | -- | | |
| 0 | BICYCLOGERMACRENE | Root | -- | -- | | |
| 0 | BICYCLOGERMACRENE | Plant | -- | -- | | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 4 | BIOTIN | Root | 0.9 | 0.9 | | |
| 0 | BISABOLENE | Flower Essent. Oil | -- | -- | | |
| 0 | BUTYROSPERMOL | Seed Oil | -- | -- | | |
| 4 | CADINENE | Shoot | -- | -- | | |
| 102 | CAFFEIC-ACID | Root | -- | -- | | |
| 28 | CALCIUM | Root | 611 | 2880 | -0.4953286858004708 | |
| 2 | CAMPESTEROL | Root | -- | -- | | |
| 0 | CAMPESTEROL-6'-LINOLENYLGLUCOSIDE | Root | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | CAMPESTEROL-6'-LINOLYLGLUCOSIDE | Root | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | CAMPESTEROL-6'-OLEYLGLUCOSIDE | Root | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|----------------------------------|------------------|---------|----------|----------------------|--|
| 0 | CAMPESTEROL-6'-PALMITYLGLUCOSIDE | Root | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | CAMPESTEROL-6'-STEARYLGLUCOSIDE | Root | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | CAPROIC-ACID-BUTYL-ESTER | Root | -- | -- | | |
| 0 | CAPROIC-ACID-PROPYL-ESTER | Root | -- | -- | | |
| 0 | CARBOHYDRATES | Root | 176808 | 834000 | 0.050849387570411526 | |
| 0 | CARBON-DISULFIDE | Root | 1500 | 1500 | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 31 | CARYOPHYLLENE | Root Essent. Oil | -- | -- | | |
| 31 | CARYOPHYLLENE | Plant | -- | -- | | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 1 | CARYOPHYLLENE-ALCOHOL | Root Essent. Oil | -- | -- | | |
| 1 | CATALASE | Root | -- | -- | | |
| 0 | CELLULASE | Root | -- | -- | | |
| 0 | CEREBROSIDE | Root | -- | -- | | |
| 0 | CHLORO-PANAXYDIOL | Tissue Culture | -- | 3 | | |
| 21 | CHLOROPHYLL | Leaf | -- | -- | | |
| 0 | CHOLESTA-3-5-DIENE | Shoot | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|-------------------|------------------|---------|----------|----------------------|--|
| 1 | CHOLESTEROL | Seed Oil | -- | -- | | |
| 20 | CHOLINE | Root | 1000 | 2000 | -0.17667432573797054 | |
| 24 | CHROMIUM | Root | 0.2 | 1.1 | -0.34069526376445175 | |
| 0 | CINEOLE | 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. |
| 0 | CIS-CARYOPHYLLENE | Root Essent. Oil | -- | -- | | |
| 0 | CIS-CARYOPHYLLENE | Plant | -- | -- | | |
| 53 | CITRAL | Root Essent. Oil | -- | -- | | |
| 53 | CITRAL | Root | -- | -- | | Wichtl, M. 1984. Teedrogen. Ein Handbuch für Apotheker und Ärzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp. |
| 23 | CITRIC-ACID | Root | -- | -- | | |
| 1 | CITROSTADIENOL | Seed Oil | -- | -- | | |
| 2 | COBALT | Root | 0.7 | 3.1 | -0.477922970663694 | |
| 12 | COPPER | Root | 17 | 17 | 0.5844884448285068 | |
| 12 | COPPER | Fruit | -- | -- | | |
| 12 | COPPER | Inflorescence | -- | -- | | |
| 12 | COPPER | Flower | -- | -- | | |
| 12 | COPPER | Leaf | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|--|----------------|---------|----------|--------|---|
| 12 | COPPER | Stem | -- | -- | | |
| 7 | CYCLOARTENOL | Seed Oil | -- | -- | | |
| 3 | CYCLOEUCALENOL | Seed Oil | -- | -- | | |
| 13 | CYSTEINE | Root | -- | -- | | |
| 2 | CYSTINE | Leaf | -- | -- | | |
| 2 | CYSTINE | Root | -- | -- | | |
| 0 | D-FRUCTOSE | Root | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 1 | D-GLUCOSE | Root | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | D-SUCROSE | Root | -- | -- | | |
| 0 | DAMMARAN-3-BETA-6-ALPHA-12-BETA-20(R)-25-PENTAOL | Shoot | -- | 2 | | |
| 0 | DAMMARAN-3-BETA-6-ALPHA-12-BETA-20(R)-25-PENTAOL-6-O-ALPHA-L-RHAMNOPYRANOSYL(1-2)-O-BETA-D-GLUCOPYRANOSIDE | Shoot | -- | 10 | | |
| 0 | DAUCOSTERINE | Root | -- | -- | | |
| 0 | DAUCOSTERINE | Leaf | -- | 3.8 | | |
| 5 | DAUCOSTEROL | Root | -- | -- | | |
| 5 | DAUCOSTEROL | Fruit | -- | -- | | |
| 5 | DAUCOSTEROL | Rhizome | -- | -- | | |
| 5 | DAUCOSTEROL | Tissue Culture | -- | -- | | |
| 0 | DECA-TRANS-2,TRANS-4-DIEN-1-AL | Shoot | -- | -- | | |
| 0 | DECA-TRANS-2-CIS-4-DIEN-1-AL | Shoot | -- | -- | | |
| 9 | DELTA-CADINENE | Root | -- | -- | | |
| 0 | DENDROLASIN | Shoot | -- | -- | | |
| 0 | DENSICHINE | Root | -- | -- | | |
| 0 | DI-ISO-PROPYL-SULFIDE | Root | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|----------------------------|--------------------|---------|----------|--------------------|--|
| 0 | DIGLYCOSYL-DIGLYCERIDE | Root | -- | -- | | |
| 0 | DIHYDROACTINIDIOLIDE | Shoot | -- | -- | | |
| 1 | DIHYDROPANAXACOL | Tissue Culture | -- | 2 | | |
| 0 | DISACCHARIDES | Root | 33000 | 33000 | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 3 | ELEMENE | Root | -- | -- | | |
| 0 | EO | Root | 100 | 500 | -0.631241020868696 | |
| 0 | EPSILON-MUUROLENE | Root Essent. Oil | -- | -- | | |
| 0 | EPSILON-MUUROLENE | Plant | -- | -- | | |
| 0 | EREMOPHIL-1-(10)-11-ENE | Shoot | -- | -- | | |
| 0 | EREMOPHILA-1-(10)-11-DIENE | Flower Essent. Oil | -- | -- | | |
| 0 | EREMOPHILENE | Root Essent. Oil | -- | 23000 | | |
| 0 | EREMOPHILENE | Plant | -- | -- | | |
| 2 | ERUCIC-ACID | Root | -- | -- | | |
| 3 | ESTRADIOL | Root | -- | -- | | |
| 6 | ESTRIOL | Root | -- | -- | | |
| 8 | ESTRONE | Root | -- | -- | | |
| 24 | ETHANOL | Shoot | -- | -- | | |
| 0 | ETHYLBENZENE | Shoot | -- | -- | | |
| 1 | ETHYLENE | Plant | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|--------------------------|------------------|---------|----------|----------------------|--|
| 13 | EUCALYPTOL | 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. |
| 76 | EUGENOL | Root Essent. Oil | -- | -- | | |
| 16 | FALCARINOL | Root | 0.9 | 310 | 1.4051395916147116 | |
| 16 | FALCARINOL | Rhizome | -- | -- | | |
| 0 | FAT | Root | 3752 | 17700 | -0.172739674548991 | |
| 61 | FERULIC-ACID | Root | -- | -- | | |
| 15 | FIBER | Root | 72000 | 72000 | -0.35781867764508235 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |
| 0 | FIBER(CRUDE) | Root | -- | 72000 | -1.1616741196232196 | |
| 0 | FIBER(DIETARY) | Root | -- | 301000 | -1.0640221212316432 | |
| 3 | FLUORIDE | Root | -- | 26.3 | 1.7190337938896858 | |
| 23 | FOLIC-ACID | Root | -- | -- | | |
| 0 | FORMIC-ACID-METHYL-ESTER | Shoot | -- | -- | | |
| 8 | FRUCTOSE | Root | 200 | 6000 | -0.4913954846191467 | |
| 8 | FRUCTOSE | Tissue Culture | -- | -- | | |
| 8 | FRUCTOSE | Leaf | -- | 6500 | -1.351589051251948 | |
| 8 | FRUCTOSE | Stem | -- | 1800 | | |
| 7 | FUMARIC-ACID | Root | -- | -- | | |
| 0 | FURALDEHYDE | Shoot | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|-------------------------|--------------------|---------|----------|--------|---|
| 0 | GADOLEIC-ACID | Root | -- | -- | | |
| 1 | GALACTOSE | Root | -- | -- | | |
| 0 | GALANIN | Root | -- | -- | | |
| 22 | GAMMA-AMINOBUTYRIC-ACID | Root | -- | -- | | |
| 0 | GAMMA-CADINENE | Flower Essent. Oil | -- | -- | | |
| 0 | GAMMA-ELEMENE | Plant | -- | -- | | |
| 0 | GAMMA-ELEMENE | Root Essent. Oil | 60000 | 100000 | 1 | |
| 0 | GAMMA-PATCHOULENE | Plant | -- | -- | | |
| 0 | GAMMA-PATCHOULENE | Root Essent. Oil | -- | -- | | |
| 0 | GAMMA-SELINENE | Root Essent. Oil | -- | -- | | |
| 0 | GAMMA-SELINENE | Plant | -- | -- | | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 0 | GE | Root | -- | -- | | |
| 0 | GENSENOSIDE-RD | Root | -- | -- | | |
| 8 | GENTISIC-ACID | Root | -- | -- | | |
| 0 | GERMANIUM | Root | 0.12 | 320 | 1 | |
| 0 | GINSEAN-PA | Root | -- | 235 | | |
| 0 | GINSEAN-PB | Root | -- | 170 | | |
| 0 | GINSEAN-S-I-A | Root | -- | 106.6 | | |
| 0 | GINSEAN-S-II-A | Root | -- | 90 | | |
| 0 | GINSENG-POLYPEPTIDE | Root | -- | -- | | |
| 0 | GINSENG-POLYPEPTIDE-GPP | Root | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|--------------------|------------|---------|----------|--------|--------------------|
| 0 | GINSENOL | Root | -- | 9.6 | | |
| 0 | GINSENOSIDE | Plant | -- | -- | | |
| 0 | GINSENOSIDE | Root | -- | 47000 | | |
| 0 | GINSENOSIDE-F | Leaf | -- | 12.5 | | |
| 0 | GINSENOSIDE-F-1 | Leaf | 4000 | 4000 | | |
| 0 | GINSENOSIDE-F-1 | Shoot | -- | 4000 | | |
| 0 | GINSENOSIDE-F2 | Leaf | 2000 | 18400 | | |
| 0 | GINSENOSIDE-F2 | Shoot | -- | 2000 | | |
| 0 | GINSENOSIDE-F2 | Fruit | -- | 5000 | | |
| 0 | GINSENOSIDE-F3 | Leaf | 2000 | 2000 | | |
| 0 | GINSENOSIDE-F3 | Flower | -- | 300 | | |
| 0 | GINSENOSIDE-F3 | Shoot | -- | 2000 | | |
| 0 | GINSENOSIDE-F4 | Leaf | -- | 746.2 | | |
| 0 | GINSENOSIDE-FC-3 | Flower | -- | -- | | |
| 0 | GINSENOSIDE-FD-2 | Flower | -- | -- | | |
| 0 | GINSENOSIDE-FD-3 | Flower | -- | -- | | |
| 0 | GINSENOSIDE-K | Root | -- | -- | | |
| 0 | GINSENOSIDE-L-A | Leaf | 2 | 6.5 | | |
| 0 | GINSENOSIDE-M-3 | Flower | -- | -- | | |
| 0 | GINSENOSIDE-M-4 | Flower | -- | -- | | |
| 0 | GINSENOSIDE-M-5 | Flower | -- | -- | | |
| 0 | GINSENOSIDE-M-6 | Flower | -- | -- | | |
| 0 | GINSENOSIDE-M-7 | Flower | -- | 300 | | |
| 0 | GINSENOSIDE-M-7-A | Flower | -- | -- | | |
| 0 | GINSENOSIDE-M-7-B | Flower | -- | -- | | |
| 0 | GINSENOSIDE-M-7-CD | Flower | -- | -- | | |
| 0 | GINSENOSIDE-M-7-ED | Flower | -- | 10 | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|--------------------|----------------|---------|----------|--------|--------------------|
| 0 | GINSENOSIDE-NG-R-2 | Root | -- | -- | | |
| 4 | GINSENOSIDE-R-O | Root | 100 | 11000 | 1 | |
| 4 | GINSENOSIDE-R-O | Flower | -- | -- | | |
| 4 | GINSENOSIDE-R-O | Rhizome | 18000 | 34000 | | |
| 0 | GINSENOSIDE-RA | Shoot | -- | -- | | |
| 0 | GINSENOSIDE-RA | Root | 100 | 300 | | |
| 0 | GINSENOSIDE-RA-1 | Root | 100 | 300 | | |
| 0 | GINSENOSIDE-RA-2 | Root | -- | 300 | | |
| 0 | GINSENOSIDE-RA-3 | Root | -- | 50 | | |
| 0 | GINSENOSIDE-RA-O | Root | -- | -- | | |
| 1 | GINSENOSIDE-RB | Root | 11300 | 40000 | | |
| 1 | GINSENOSIDE-RB | Rhizome | -- | -- | | |
| 1 | GINSENOSIDE-RB | Tissue Culture | 13100 | 15900 | | |
| 14 | GINSENOSIDE-RB-1 | Bud | -- | 2000 | | |
| 14 | GINSENOSIDE-RB-1 | Leaf | 9 | 8000 | 1 | |
| 14 | GINSENOSIDE-RB-1 | Root | 1700 | 83000 | 1 | |
| 14 | GINSENOSIDE-RB-1 | Fruit | -- | -- | | |
| 14 | GINSENOSIDE-RB-1 | Rhizome | 8800 | 14000 | | |
| 14 | GINSENOSIDE-RB-1 | Embryo | -- | -- | | |
| 14 | GINSENOSIDE-RB-1 | Tissue Culture | -- | -- | | |
| 14 | GINSENOSIDE-RB-1 | Flower | -- | 2000 | | |
| 14 | GINSENOSIDE-RB-1 | Seed | -- | -- | | |
| 14 | GINSENOSIDE-RB-1 | Shoot | -- | 1000 | | |
| 14 | GINSENOSIDE-RB-1 | Root Bark | -- | -- | | |
| 8 | GINSENOSIDE-RB-2 | Flower | -- | 2000 | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|----------------------|----------------|---------|----------|--------|--------------------|
| 8 | GINSENOSIDE-RB-2 | Fruit | 200 | 29500 | | |
| 8 | GINSENOSIDE-RB-2 | Leaf | 11 | 58300 | 1 | |
| 8 | GINSENOSIDE-RB-2 | Root | 100 | 23000 | 1 | |
| 8 | GINSENOSIDE-RB-2 | Root Bark | -- | -- | | |
| 8 | GINSENOSIDE-RB-2 | Rhizome | 4500 | 5700 | | |
| 8 | GINSENOSIDE-RB-2 | Stem | -- | 3970 | | |
| 8 | GINSENOSIDE-RB-2 | Shoot | -- | 4000 | 1 | |
| 8 | GINSENOSIDE-RB-2 | Embryo | -- | -- | | |
| 8 | GINSENOSIDE-RB-2 | Tissue Culture | -- | -- | | |
| 8 | GINSENOSIDE-RB-2 | Seed | -- | -- | | |
| 0 | GINSENOSIDE-RB-2-C | Root | -- | -- | | |
| 2 | GINSENOSIDE-RB-3 | Root | 50 | 50 | -1 | |
| 2 | GINSENOSIDE-RB-3 | Flower | -- | 136 | | |
| 0 | GINSENOSIDE-RB-C | Root | -- | 14000 | | |
| 0 | GINSENOSIDE-RB-C | Root Bark | -- | 24000 | | |
| 0 | GINSENOSIDE-RB-GROUP | Root | -- | -- | | |
| 0 | GINSENOSIDE-RB-GROUP | Tissue Culture | -- | -- | | |
| 6 | GINSENOSIDE-RC | Flower | 672 | 2000 | | |
| 6 | GINSENOSIDE-RC | Fruit | 1000 | 36700 | | |
| 6 | GINSENOSIDE-RC | Leaf | 3.5 | 37700 | 1 | |
| 6 | GINSENOSIDE-RC | Root | 500 | 25000 | 1 | |
| 6 | GINSENOSIDE-RC | Rhizome | -- | 4700 | | |
| 6 | GINSENOSIDE-RC | Root Bark | -- | -- | | |
| 6 | GINSENOSIDE-RC | Embryo | -- | -- | | |
| 6 | GINSENOSIDE-RC | Pt | -- | 1900 | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|------------------|----------------|---------|----------|--------|--------------------|
| 6 | GINSENOSIDE-RC | Seed | -- | -- | | |
| 6 | GINSENOSIDE-RC | Shoot | 2000 | 2000 | | |
| 6 | GINSENOSIDE-RC | Tissue Culture | -- | -- | | |
| 0 | GINSENOSIDE-RC-2 | Root | -- | -- | | |
| 3 | GINSENOSIDE-RD | Flower | 1000 | 5000 | | |
| 3 | GINSENOSIDE-RD | Fruit | 1000 | 68800 | | |
| 3 | GINSENOSIDE-RD | Leaf | 11 | 65800 | 1 | |
| 3 | GINSENOSIDE-RD | Root | 380 | 21200 | 1 | |
| 3 | GINSENOSIDE-RD | Embryo | -- | -- | | |
| 3 | GINSENOSIDE-RD | Rhizome | 700 | 1600 | -1 | |
| 3 | GINSENOSIDE-RD | Root Bark | -- | -- | | |
| 3 | GINSENOSIDE-RD | Seed | -- | -- | | |
| 3 | GINSENOSIDE-RD | Shoot | -- | 15000 | 1 | |
| 3 | GINSENOSIDE-RD | Pt | 100 | 1070 | | |
| 3 | GINSENOSIDE-RD | Tissue Culture | -- | -- | | |
| 0 | GINSENOSIDE-RD-2 | Root | -- | -- | | |
| 0 | GINSENOSIDE-RD-2 | Embryo | -- | -- | | |
| 5 | GINSENOSIDE-RE | Flower | 25000 | 60000 | | |
| 5 | GINSENOSIDE-RE | Fruit | 25000 | 60000 | | |
| 5 | GINSENOSIDE-RE | Leaf | 15 | 151200 | 1 | |
| 5 | GINSENOSIDE-RE | Root | 680 | 84800 | 1 | |
| 5 | GINSENOSIDE-RE | Pt | 600 | 1410 | | |
| 5 | GINSENOSIDE-RE | Rhizome | 4700 | 5700 | | |
| 5 | GINSENOSIDE-RE | Seed | -- | -- | | |
| 5 | GINSENOSIDE-RE | Shoot | -- | 15000 | 1 | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|------------------|----------------|---------|----------|--------|--------------------|
| 5 | GINSENOSIDE-RE | Stem | -- | 700 | | |
| 5 | GINSENOSIDE-RE | Tissue Culture | -- | -- | | |
| 5 | GINSENOSIDE-RE | Fruit Juice | -- | -- | | |
| 0 | GINSENOSIDE-RE-2 | Root | -- | -- | | |
| 0 | GINSENOSIDE-RE-3 | Root | -- | -- | | |
| 4 | GINSENOSIDE-RF | Root | 200 | 9200 | | |
| 4 | GINSENOSIDE-RF | Rhizome | -- | 1500 | | |
| 4 | GINSENOSIDE-RF | Leaf | 24100 | 38300 | | |
| 4 | GINSENOSIDE-RF | Fruit | -- | 6900 | | |
| 4 | GINSENOSIDE-RF | Shoot | -- | -- | | |
| 4 | GINSENOSIDE-RF | Tissue Culture | -- | -- | | |
| 4 | GINSENOSIDE-RF | Flower | -- | -- | | |
| 1 | GINSENOSIDE-RG | Root | 4600 | 16300 | | |
| 1 | GINSENOSIDE-RG | Stem | -- | 700 | | |
| 1 | GINSENOSIDE-RG | Tissue Culture | 12200 | 17300 | | |
| 1 | GINSENOSIDE-RG | Root Bark | -- | 34000 | | |
| 13 | GINSENOSIDE-RG-1 | Flower | 400 | 3000 | | |
| 13 | GINSENOSIDE-RG-1 | Fruit | 400 | 287200 | | |
| 13 | GINSENOSIDE-RG-1 | Leaf | 5 | 72200 | 1 | |
| 13 | GINSENOSIDE-RG-1 | Root | 320 | 58400 | 1 | |
| 13 | GINSENOSIDE-RG-1 | Pt | 1000 | 3270 | | |
| 13 | GINSENOSIDE-RG-1 | Rhizome | 3800 | 4500 | | |
| 13 | GINSENOSIDE-RG-1 | Root Bark | -- | -- | | |
| 13 | GINSENOSIDE-RG-1 | Tissue Culture | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|-------------------|----------------|---------|----------|---------------------|--------------------|
| 13 | GINSENOSIDE-RG-1 | Embryo | -- | -- | | |
| 13 | GINSENOSIDE-RG-1 | Shoot | -- | 15000 | 1 | |
| 13 | GINSENOSIDE-RG-1 | Stem | -- | 2920 | | |
| 3 | GINSENOSIDE-RG-2 | Root | 100 | 26700 | 1 | |
| 3 | GINSENOSIDE-RG-2 | Rhizome | -- | -- | | |
| 3 | GINSENOSIDE-RG-2 | Flower | -- | -- | | |
| 3 | GINSENOSIDE-RG-2 | Shoot | -- | -- | | |
| 3 | GINSENOSIDE-RG-2 | Leaf | 67 | 317.5 | | |
| 2 | GINSENOSIDE-RG-3 | Leaf | 25 | 195 | | |
| 2 | GINSENOSIDE-RG-3 | Shoot | -- | -- | | |
| 2 | GINSENOSIDE-RG-3 | Root | 3 | 30 | | |
| 0 | GINSENOSIDE-RG-4 | Leaf | 0.16 | 4.5 | | |
| 0 | GINSENOSIDE-RH | Root | -- | -- | | |
| 0 | GINSENOSIDE-RH | Shoot | -- | -- | | |
| 0 | GINSENOSIDE-RH-2 | Shoot | -- | 0.4 | | |
| 0 | GINSENOSIDE-RH-2 | Root | -- | -- | | |
| 0 | GINSENOSIDE-RH-3 | Leaf | 2.9 | 5 | | |
| 0 | GINSENOSIDE-RH-3 | Shoot | -- | -- | | |
| 2 | GINSENOSIDE-RH1 | Root | -- | 15 | | |
| 2 | GINSENOSIDE-RH1 | Shoot | -- | -- | | |
| 2 | GINSENOSIDE-RH1 | Leaf | 12.5 | 135 | | |
| 2 | GINSENOSIDE-RH1 | Tissue Culture | -- | -- | | |
| 0 | GINSENOSIDE-Z-R-1 | Root | -- | -- | | |
| 18 | GINSENOSIDES | Root | 10720 | 30000 | -0.8754149693562976 | |
| 18 | GINSENOSIDES | Tissue Culture | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|---------------------------|----------------|---------|----------|---------------------|---|
| 18 | GINSENOSIDES | Shoot | -- | -- | | |
| 18 | GINSENOSIDES | Plant | -- | -- | | |
| 0 | GINSENOYNE-A | Root | -- | 12.8 | | |
| 0 | GINSENOYNE-A-LINOLEATE | Root | -- | 2.8 | | |
| 0 | GINSENOYNE-B | Root | -- | 1.5 | | |
| 0 | GINSENOYNE-C | Root | -- | 1.1 | | |
| 0 | GINSENOYNE-D | Root | -- | 7.1 | | |
| 0 | GINSENOYNE-E | Root | -- | 7.1 | | |
| 0 | GINSENOYNE-F | Root | -- | 2.6 | | |
| 0 | GINSENOYNE-G | Root | -- | 0.176 | -1 | |
| 0 | GINSENOYNE-H | Root | -- | 1.47 | | |
| 0 | GINSENOYNE-I | Root | -- | 2.6 | | |
| 0 | GINSENOYNE-J | Root | -- | 3.5 | | |
| 0 | GINSENOYNE-K | Root | -- | 14.1 | | |
| 0 | GINSENOYNES | Root | -- | -- | | Wichtl, M. 1984. Teedrogen. Ein Handbuch für Apotheker und Ärzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp. |
| 7 | GLUCOSE | Root | 100 | 9000 | -0.5544082656198722 | |
| 7 | GLUCOSE | Leaf | -- | 5800 | -0.5922731387025567 | |
| 7 | GLUCOSE | Stem | -- | 14700 | | |
| 7 | GLUCOSE | Tissue Culture | -- | -- | | |
| 8 | GLUTAMIC-ACID | Root | -- | -- | | |
| 8 | GLUTAMIC-ACID | Leaf | -- | -- | | |
| 0 | GLY-ARG-GAMMA-GLU-VAL-NH2 | Root | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|---|------------------|---------|----------|---------------------|---|
| 12 | GLYCINE | Root | -- | -- | | |
| 12 | GLYCINE | Leaf | -- | -- | | |
| 0 | GLYCO-CHENODEOXYCHOLIC-ACID | Root | -- | -- | | |
| 0 | GLYCO-DEOXY-CHOLIC-ACID | Root | -- | -- | | |
| 0 | GLYCOCHOLIC-ACID | Root | -- | -- | | |
| 0 | GOMSEMPISODE-RB-2 | Root | -- | -- | | |
| 1 | GUANINE | Root | -- | -- | | |
| 0 | GUM | Root | 27560 | 130000 | 0.9757626125530419 | |
| 0 | GYPENOSIDE-XVII | Tissue Culture | -- | 960 | | |
| 7 | HARMAN | Root | -- | -- | | |
| 0 | HENEICOSANOIC-ACID | Root | -- | -- | | |
| 0 | HEPTADEC-1-EN-4,6-DIYN-3,9,10-TRIOL | Root | -- | -- | | |
| 0 | HEPTADEC-1-EN-4,6-DIYNE-3,9,10-TRIOL | Root | -- | -- | | |
| 0 | HEPTADEC-1-EN-4,6-DIYNE-3,9-DIOL | Root | -- | 150 | | |
| 0 | HEPTADECA-1-4-DIENE-6-8-DIYNE-3-10-DIOL | Root | -- | -- | | |
| 0 | HEPTADECA-1-8-DIEN-4-6-DIYN-3-10-DIOL | Root | -- | -- | | |
| 0 | HEPTADECA-1-8-DIENE-4-6-DIYN-10-OL-3-ONE | Root | -- | -- | | |
| 0 | HEPTADECA-1-8-DIENE-4-6-DIYN-3-10-DIONE | Root | -- | -- | | |
| 0 | HEPTADECA-1-8-DIENE-4-6-DIYNE-3-10-DIOL | Root | -- | 14.6 | -1.0000000000000067 | |
| 0 | HEPTADECA-1-9-DIEN-4-6-DIYN-3-OL | Root | -- | -- | | |
| 0 | HEPTADECA-1-EN-4,6-DIYN-3,9-DIOL | Root | 150 | 150 | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | HEPTADECA-1-ENE-4-6-DIYNE-3-9-10-TRIOL | Root | -- | 1.5 | | |
| 0 | HEPTADECA-1-TRANS-8-DIENE-4-6-DIYNE-3-10-DIOL | Root | -- | 5.2 | | |
| 0 | HEPTADECAN-1-OL | Root Essent. Oil | -- | 19000 | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|---------------------------|------------------|---------|----------|---------------------|--------------------|
| 0 | HEPTADECAN-2-ONE | Root Essent. Oil | -- | 43000 | | |
| 0 | HEPTADECAN-2-ONE | Stem Essent. Oil | -- | 20000 | | |
| 0 | HEPTADECAN-2-ONE | Leaf Essent. Oil | -- | 20000 | | |
| 1 | HEPTADECANOIC-ACID | Root | -- | -- | | |
| 0 | HETEROGLYCAN-F | Fruit | -- | -- | | |
| 0 | HEXADECANOIC-ACID | Shoot | -- | -- | | |
| 0 | HEXAN-1-AL | Shoot | -- | -- | | |
| 7 | HISTIDINE | Leaf | -- | -- | | |
| 7 | HISTIDINE | Root | -- | 20 | -1.7257014002319866 | |
| 2 | HUMULENE | Root Essent. Oil | -- | 24000 | 1 | |
| 2 | HUMULENE | Leaf Essent. Oil | -- | -- | | |
| 2 | HUMULENE | Stem Essent. Oil | -- | -- | | |
| 7 | INDOLE-3-ACETIC-ACID | Tissue Culture | -- | -- | | |
| 0 | INDOLE-3-ACETYL-ASPARTATE | Tissue Culture | -- | -- | | |
| 1 | INDOLE-ACETIC-ACID | Tissue Culture | -- | -- | | |
| 0 | INVERTASE | Root | -- | -- | | |
| 6 | IRON | Root | -- | -- | | |
| 6 | IRON | Leaf | -- | -- | | |
| 6 | IRON | Pt | -- | -- | | |
| 6 | IRON | Stem | -- | -- | | |
| 6 | IRON | Fruit | -- | -- | | |
| 0 | ISO-BUTYL-PROPIONATE | Root | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|-----------------------|------------------|---------|----------|---------------------|---|
| 0 | ISO-PROPYL-PROPIONATE | Root | -- | -- | | |
| 3 | ISOLEUCINE | Root | -- | -- | | |
| 3 | ISOLEUCINE | Leaf | -- | -- | | |
| 75 | KAEMPFEROL | Leaf | -- | -- | | |
| 75 | KAEMPFEROL | Shoot | -- | -- | | |
| 0 | KARUSAN-A | Root | -- | -- | | |
| 0 | KARUSAN-B | Root | -- | -- | | |
| 0 | KARUSAN-C | Root | -- | -- | | |
| 0 | KARUSAN-D | Root | -- | -- | | |
| 0 | KARUSAN-E | Root | -- | -- | | |
| 0 | KETOGLUTARIC-ACID | Root | -- | -- | | |
| 0 | KILOCALORIES | Root | 2740 | 2740 | -1.3796935435329993 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |
| 0 | KINETIN | Tissue Culture | -- | -- | | |
| 2 | LEUCINE | Root | -- | -- | | |
| 2 | LEUCINE | Leaf | -- | -- | | |
| 1 | LIGNOCERIC-ACID | Root | -- | -- | | |
| 3 | LIGUSTRAZINE | Root | -- | -- | | |
| 60 | LIMONENE | Root Essent. Oil | -- | -- | | |
| 60 | LIMONENE | Root | -- | -- | | Wichtl, M. 1984. Teedrogen. Ein Handbuch für Apotheker und Ärzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp. |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|----------------------------|------------------|---------|----------|---------------------|---|
| 53 | LINALOOL | Root Essent. Oil | -- | -- | | |
| 27 | LINOLEIC-ACID | Root | -- | 140 | -1.1111121238776438 | |
| 0 | LINOLEIN | Root | -- | -- | | |
| 0 | LINOLENIC-ACID | Root | -- | -- | | |
| 0 | LINOLEOYL-BETA-D-GLUCOSIDE | Tissue Culture | -- | -- | | |
| 21 | LUPEOL | Seed Oil | -- | -- | | |
| 15 | LUTEIN | Leaf | -- | -- | | |
| 7 | LUTEOLIN-7-GLUCOSIDE | Leaf | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 4 | LYSINE | Leaf | -- | -- | | |
| 4 | LYSINE | Root | -- | -- | | |
| 0 | LYSOPHOSPHATIDYL-INOSITOL | Root | -- | -- | | |
| 0 | LYSOPHOSPHATIDYLCHOLINE | Root | -- | -- | | |
| 65 | MAGNESIUM | Root | 102 | 481 | -1.107068199242284 | |
| 0 | MALEIC-ACID | Root | -- | -- | | |
| 15 | MALIC-ACID | Root | -- | -- | | |
| 0 | MALONYL-GINSENOSE-RB-1 | Root | 2730 | 13000 | | |
| 0 | MALONYL-GINSENOSE-RB-1 | Rhizome | 6900 | 13000 | | |
| 0 | MALONYL-GINSENOSE-RB-2 | Root | 1370 | 11000 | | |
| 0 | MALONYL-GINSENOSE-RB-2 | Rhizome | 4000 | 4200 | | |
| 0 | MALONYL-GINSENOSE-RC | Root | 1000 | 8400 | | |
| 0 | MALONYL-GINSENOSE-RC | Rhizome | 3400 | 3500 | | |
| 0 | MALONYL-GINSENOSE-RD | Root | 400 | 1200 | | |
| 0 | MALONYL-GINSENOSE-RD | Rhizome | -- | -- | | |
| 11 | MALTOL | Root | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|--------------------------------|------------------|---------|----------|---------------------|---|
| 2 | MALTOSE | Root | 5100 | 199600 | 1 | |
| 2 | MALTOSE | Stem | -- | 1300 | | |
| 14 | MANGANESE | Root | 0.4 | 1.9 | -0.5231856000816221 | |
| 14 | MANGANESE | Fruit | -- | -- | | |
| 14 | MANGANESE | Stem | -- | -- | | |
| 14 | MANGANESE | Leaf | -- | -- | | |
| 14 | MANGANESE | Pt | -- | -- | | |
| 18 | MANNITOL | Root | -- | -- | | |
| 0 | MAYURONE | Root Essent. Oil | -- | -- | | |
| 0 | MAYURONE | Plant | -- | -- | | |
| 15 | METHIONINE | Leaf | -- | -- | | |
| 15 | METHIONINE | Root | -- | -- | | |
| 0 | METHYL-6,9-DIALKYNE-OCTADECATE | Shoot | -- | -- | | |
| 2 | MOLYBDENUM | Root | -- | -- | | |
| 2 | MOLYBDENUM | Leaf | -- | -- | | |
| 2 | MOLYBDENUM | Fruit | -- | -- | | |
| 2 | MOLYBDENUM | Pt | -- | -- | | |
| 2 | MOLYBDENUM | Stem | -- | -- | | |
| 0 | MONOSACCHARIDES | Root | 15000 | 15000 | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | MORETENOL | Seed Oil | -- | -- | | |
| 6 | MYRISTIC-ACID | Root | -- | -- | | |
| 0 | N-9-FORMYL-HARMAN | Root | -- | 0.1 | | |
| 0 | N-FORMYL-HARMAN | Root | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|---|------------------|---------|----------|--------------------|--|
| 1 | N-NONACOSANE | Leaf | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 1 | N-NONACOSANE | Rhizome | -- | -- | | |
| 1 | N-NONACOSANE | Root | -- | -- | | |
| 0 | N-PENTADECANE | Plant | -- | -- | | |
| 0 | N-PENTADECANE | Root Essent. Oil | -- | 18000 | | |
| 0 | NEO-INTERMEDEOL | Plant | -- | 10.4 | | |
| 0 | NEOCLOVENE | Plant | -- | -- | | J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991. |
| 2 | NEOXANTHIN | Leaf | -- | -- | | |
| 11 | NEROLIDOL | Shoot | -- | -- | | |
| 0 | NERVONIC-ACID | Root | -- | -- | | |
| 39 | NIACIN | Root | 17 | 80 | 0.8625453013144426 | |
| 2 | NICOTINAMIDE | Root | -- | -- | | |
| 11 | NICOTINIC-ACID | Root | -- | -- | | |
| 2 | NORHARMAN | Root | -- | -- | | |
| 0 | NOTOGINSENOSE-R-1 | Root | -- | 20 | | |
| 0 | O-ALPHA-D-GLUCOPYRANOSYL...FRUCTOFURANOSIDE | Root | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|--|------------------|---------|----------|--------------------|--|
| 0 | O-ALPHA-D-GLUCOPYRANOSYL...GLUCOPYRANOSE | Root | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | OBTUSIFOLIOL | Seed Oil | -- | -- | | |
| 0 | OCTACOSAN-1-OL | Leaf | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 64 | OLEANOLIC-ACID | Root | 150 | 700 | 0.845493216306878 | |
| 18 | OLEIC-ACID | Root | -- | -- | | |
| 0 | OXALIC-ACID-ETHYL-ESTER | Root | -- | -- | | |
| 25 | P-COUMARIC-ACID | Root | -- | -- | | |
| 1 | P-HYDROXYCINNAMIC-ACID | Root | -- | 26 | | |
| 13 | PALMITIC-ACID | Root | -- | -- | | |
| 13 | PALMITIC-ACID | Plant | -- | -- | | |
| 13 | PALMITIC-ACID | Root Essent. Oil | -- | 86000 | 1.2911413065205417 | |
| 13 | PALMITIC-ACID | Stem Essent. Oil | -- | 160000 | | |
| 13 | PALMITIC-ACID | Leaf Essent. Oil | -- | 160000 | | |
| 2 | PALMITOLEIC-ACID | Root | -- | -- | | |
| 0 | PALMITOYL-BETA-D-GLUCOSIDE | Tissue Culture | -- | -- | | |
| 1 | PANACENE | Root | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|---|----------------|---------|----------|--------|---|
| 0 | PANASENOSIDE | Leaf | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | PANASENOSIDE | Shoot | -- | -- | | |
| 0 | PANASINSANOL-A | Root | -- | 2.3 | | |
| 0 | PANASINSANOL-B | Root | -- | 12.5 | | |
| 0 | PANAX-GINSENG-20(S)-PROSAPOGENIN | Root | -- | -- | | |
| 0 | PANAX-GINSENG-GENIN-F-1 | Root | -- | -- | | |
| 0 | PANAX-GINSENG-GENIN-F-2 | Root | -- | -- | | |
| 0 | PANAX-GINSENG-GENIN-F-4 | Root | -- | -- | | |
| 0 | PANAX-GINSENG-GLYCOPROTEIN | Root | -- | -- | | |
| 0 | PANAX-GINSENG-GLYCOSIDE-P-1 | Root | -- | -- | | |
| 0 | PANAX-GINSENG-LIPOLYTIC-PEPTIDE | Root | -- | -- | | |
| 0 | PANAX-GINSENG-POLYACETYLENE-C | Root | -- | -- | | |
| 0 | PANAX-GINSENG-POLYACETYLENE-D | Root | -- | -- | | |
| 0 | PANAX-GINSENG-POLYACETYLENE-E | Root | -- | -- | | |
| 0 | PANAX-GINSENG-POLYACETYLENE-F | Root | -- | -- | | |
| 0 | PANAX-GINSENG-POLYACETYLENE-G | Root | -- | -- | | |
| 0 | PANAX-GINSENG-PROTEIN | Root | -- | -- | | |
| 0 | PANAX-GLYCOPROTEIN | Root | -- | -- | | |
| 0 | PANAX-HETEROGLYCAN-GL-P-I | Leaf | -- | -- | | |
| 0 | PANAX-HETEROGLYCAN-GL-P-II | Leaf | -- | -- | | |
| 0 | PANAX-HETEROGLYCAN-GL-P-IV | Leaf | -- | -- | | |
| 0 | PANAX-OLIGOSACCHARIDE | Tissue Culture | -- | -- | | |
| 0 | PANAX-PECTIC-HETEROGLYCAN-GL-4-II-B-1-III | Leaf | -- | -- | | |
| 0 | PANAX-POLYPEPTIDE | Root | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|-------------------------------------|----------------|---------|----------|--------|--------------------|
| 0 | PANAX-POLYPHENOLIC-PERMETHYL-ETHER | Root | -- | -- | | |
| 0 | PANAX-POLYSACCHARIDE | Root | 30000 | 40000 | | |
| 0 | PANAX-POLYSACCHARIDE | Tissue Culture | -- | -- | | |
| 0 | PANAX-POLYSACCHARIDE-GH-1 | Root | -- | -- | | |
| 0 | PANAX-POLYSACCHARIDE-GL-4 | Root | -- | -- | | |
| 0 | PANAX-POLYSACCHARIDE-GL-4-II-B-1-II | Root | -- | -- | | |
| 0 | PANAX-POLYSACCHARIDE-GL-AI-A | Leaf | -- | -- | | |
| 0 | PANAX-POLYSACCHARIDE-GL-AI-B | Leaf | -- | -- | | |
| 0 | PANAX-POLYSACCHARIDE-GL-B-III | Leaf | -- | -- | | |
| 0 | PANAX-POLYSACCHARIDE-GL-NI-A | Leaf | -- | -- | | |
| 0 | PANAX-POLYSACCHARIDE-GL-NI-B | Leaf | -- | -- | | |
| 0 | PANAX-POLYSACCHARIDE-P-N | Leaf | -- | -- | | |
| 0 | PANAX-POLYSACCHARIDE-S-2-A | Stem | -- | -- | | |
| 0 | PANAX-PROTEIN | Root | -- | -- | | |
| 0 | PANAX-SAPONIN-A | Root | -- | -- | | |
| 0 | PANAX-SAPONIN-C | Root | -- | -- | | |
| 0 | PANAX-TRITERPENE-GF-VI | Fruit | -- | -- | | |
| 0 | PANAX-TRITERPENE-GF-VII | Fruit | -- | -- | | |
| 1 | PANAXACOL | Root | -- | -- | | |
| 1 | PANAXACOL | Tissue Culture | 37 | 50 | | |
| 0 | PANAXADIOL | Root | 700 | 6500 | -1 | |
| 0 | PANAXADIOL-SAPONIN | Shoot | -- | -- | | |
| 1 | PANAXAN-A | Root | -- | -- | | |
| 1 | PANAXAN-B | Root | -- | -- | | |
| 1 | PANAXAN-C | Root | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|-----------------------|------------|---------|----------|--------|--|
| 1 | PANAXAN-D | Root | -- | -- | | |
| 1 | PANAXAN-E | Root | -- | -- | | |
| 0 | PANAXAN-F | Root | -- | -- | | |
| 0 | PANAXAN-G | Root | -- | -- | | |
| 0 | PANAXAN-H | Root | -- | -- | | |
| 0 | PANAXAN-I | Root | -- | -- | | |
| 0 | PANAXAN-J | Root | -- | -- | | |
| 0 | PANAXAN-K | Root | -- | -- | | |
| 0 | PANAXAN-L | Root | -- | -- | | |
| 0 | PANAXAN-M | Root | -- | -- | | |
| 0 | PANAXAN-N | Root | -- | -- | | |
| 0 | PANAXAN-O | Root | -- | -- | | |
| 0 | PANAXAN-P | Root | -- | -- | | |
| 0 | PANAXAN-Q | Root | -- | -- | | |
| 0 | PANAXAN-R | Root | -- | -- | | |
| 0 | PANAXAN-S | Root | -- | -- | | |
| 0 | PANAXAN-T | Root | -- | -- | | |
| 0 | PANAXAN-U | Root | -- | -- | | |
| 0 | PANAXATRIOL | Root | 700 | 7700 | -1 | |
| 0 | PANAXATRIOL | Leaf | -- | -- | | |
| 0 | PANAXATRIOL-GLYCOSIDE | Root | -- | -- | | |
| 0 | PANAXATRIOL-SAPONIN | Shoot | -- | -- | | |
| 4 | PANAXIC-ACID | Root | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|------------------------------|------------------|---------|----------|---------------------|---|
| 5 | PANAXIN | Root | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | PANAXOSIDE-A | Root | -- | -- | | |
| 0 | PANAXOSIDE-A-PROGENIN-I | Root | -- | -- | | |
| 0 | PANAXOSIDE-B | Root | -- | -- | | |
| 0 | PANAXOSIDE-C | Root | -- | -- | | |
| 0 | PANAXOSIDE-D | Root | -- | -- | | |
| 0 | PANAXOSIDE-E | Root | -- | -- | | |
| 0 | PANAXOSIDE-F | Root | -- | -- | | |
| 1 | PANAXYDOL | Root | 357.1 | 440 | -1 | |
| 1 | PANAXYDOL | Tissue Culture | -- | 8 | | |
| 0 | PANAXYDOL-CHLOROHYDRIN | Root | -- | 13.5 | | |
| 0 | PANAXYDOL-LINOLEATE | Root | -- | 8.1 | | |
| 0 | PANAXYNE | Root | -- | -- | | |
| 0 | PANAXYNE-EPOXIDE | Root | 1.8 | 9 | | |
| 3 | PANAXYNOL | Root | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | PANAXYNOL-LINOLEATE | Root | -- | 1.3 | | |
| 1 | PANAXYTRIOL | Root | 14.2 | 250 | 0.9999999999999999 | |
| 11 | PANTOTHENIC-ACID | Root | 6.6 | 6.6 | -1.5734087317737453 | |
| 2 | PATCHOULENE | Root Essent. Oil | -- | 20000 | | |
| 24 | PECTIN | Root | -- | -- | | |
| 24 | PECTIN | Plant | -- | -- | | |
| 0 | PELARGONIDIN-3-MONOGLUCOSIDE | Fruit Epidermis | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|------------------------------------|----------------|---------|----------|---------------------|---|
| 1 | PENTADECANOIC-ACID | Root | -- | -- | | |
| 0 | PERLARGONIDIN-3-O-BETA-D-GLUCOSIDE | Root | -- | -- | | |
| 0 | PERLOLYRINE | Root | -- | 1.6 | | |
| 0 | PHENOLASE | Root | -- | -- | | |
| 2 | PHENYL-ACETALDEHYDE | Shoot | -- | -- | | |
| 7 | PHENYLALANINE | Root | -- | -- | | |
| 7 | PHENYLALANINE | Leaf | -- | -- | | |
| 0 | PHENYLETHANOL | Shoot | -- | -- | | |
| 0 | PHEOPHYTIN | Leaf | -- | -- | | |
| 0 | PHOSPHATIDIC-ACID | Root | -- | -- | | |
| 2 | PHOSPHATIDYL-CHOLINE | Root | -- | -- | | |
| 0 | PHOSPHATIDYL-ETHANOLAMINE | Root | -- | -- | | |
| 0 | PHOSPHATIDYL-GLYCEROL | Root | -- | -- | | |
| 0 | PHOSPHATIDYL-INOSITOL | Root | -- | -- | | |
| 4 | PHOSPHORUS | Root | 112 | 528 | -0.5253256654441569 | |
| 0 | POLYACETYLENES | Root | -- | -- | | Wichtl, M. 1984. Teedrogen. Ein Handbuch für Apotheker und Ärzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp. |
| 0 | POLYSACCHARIDE | Root | -- | -- | | |
| 0 | POLYSACCHARIDE | Rhizome | -- | -- | | |
| 0 | POLYSACCHARIDE | Tissue Culture | -- | -- | | |
| 0 | POLYSACCHARIDE-GL-P-I | Leaf | -- | 5 | | |
| 0 | POLYSACCHARIDE-GL-P-II | Leaf | -- | 8 | | |
| 0 | POLYSACCHARIDE-GL-P-III | Leaf | -- | 2.2 | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|----------------------------|----------------|---------|----------|----------------------|--------------------|
| 0 | POLYSACCHARIDE-GL-P-IV | Leaf | -- | 2.4 | | |
| 0 | POLYSACCHARIDE-SA | Root | -- | -- | | |
| 0 | POLYSACCHARIDE-SB | Root | -- | -- | | |
| 14 | POTASSIUM | Root | 515 | 2430 | -0.9774436969784575 | |
| 0 | PRO-RENIN | Root | -- | -- | | |
| 0 | PROLINE | Root | -- | -- | | |
| 0 | PROLINE | Leaf | -- | -- | | |
| 0 | PROTEIN | Root | 23108 | 109000 | -0.10570538573840164 | |
| 0 | PROTOPANAXADIOL | Root | -- | -- | | |
| 0 | PROTOPANAXADIOL-GLYCOSIDES | Root | -- | -- | | |
| 0 | PUTRESCINE | Root | -- | -- | | |
| 2 | PYROGLUTAMIC-ACID | Root | -- | -- | | |
| 1 | PYRUVIC-ACID | Root | -- | -- | | |
| 0 | QUINQUENOSIDE-R-1 | Root | -- | 20 | -1 | |
| 0 | RHAMNOSE | Root | -- | -- | | |
| 0 | RHAMNOSE | Tissue Culture | -- | -- | | |
| 15 | RIBOFLAVIN | Root | 0.4 | 1.8 | -0.49776655351897503 | |
| 34 | SALICYLIC-ACID | Root | -- | 3.4 | -1 | |
| 0 | SANTALENE | Shoot | -- | -- | | |
| 0 | SAPONIN-II | Plant | -- | -- | | |
| 0 | SAPONIN-II | Tissue Culture | -- | -- | | |
| 0 | SAPONIN-II | Root | -- | -- | | |
| 0 | SAPONIN-III | Root | -- | -- | | |
| 0 | SAPONIN-III | Tissue Culture | -- | -- | | |
| 0 | SAPONIN-III | Plant | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|----------------------------------|------------------|---------|----------|----------------------|---|
| 0 | SAPONIN-IV | Root | -- | -- | | |
| 0 | SAPONIN-IV | Plant | -- | -- | | |
| 0 | SAPONIN-IV | Tissue Culture | -- | -- | | |
| 0 | SAPONIN-V | Root | -- | -- | | |
| 0 | SAPONIN-V | Plant | -- | -- | | |
| 0 | SAPONIN-V | Tissue Culture | -- | -- | | |
| 5 | SAPONINS | Root | -- | 20000 | -0.6445017907060011 | |
| 5 | SAPONINS | Shoot | -- | -- | | |
| 5 | SAPONINS | Stem | 16000 | 40000 | | |
| 5 | SAPONINS | Flower | -- | 69000 | | |
| 5 | SAPONINS | Leaf | -- | 128000 | 1.3249298643249272 | |
| 60 | SELENIUM | Root | 0.5 | 2.5 | -0.18461140397934853 | |
| 0 | SELINA-4(14),7(11)-DIENE | Root Essent. Oil | -- | -- | | |
| 0 | SENECRASSIDIOL | Root | -- | -- | | |
| 1 | SERINE | Root | -- | -- | | |
| 1 | SERINE | Leaf | -- | -- | | |
| 0 | SESQUITERPENEDIOL | Root | -- | -- | | |
| 4 | SILICON | Root | -- | -- | | |
| 0 | SITOSTEROL-6'-LINOLENYLGLUCOSIDE | Root | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | SITOSTEROL-6'-LINOLYLGLUCOSIDE | Root | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|------------------------------------|------------|---------|----------|---------------------|---|
| 0 | SITOSTEROL-6'-OLEYLGLUCOSIDE | Root | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | SITOSTEROL-6'-PALMITYLGLUCOSIDE | Root | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | SITOSTEROL-6'-STEARYLGLUCOSIDE | Root | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 1 | SODIUM | Root | 5 | 24 | -0.5015977269170404 | |
| 0 | SPATHULENOL | Plant | -- | 15.9 | -0.5352938495785399 | |
| 1 | SPERMIDINE | Root | -- | -- | | |
| 1 | SPERMINE | Root | -- | -- | | |
| 0 | SPINACINE | Root | -- | 33.3 | | |
| 10 | SQUALENE | Seed Oil | -- | -- | | |
| 0 | SQUALENE-2-3-OXIDE | Seed Oil | -- | -- | | |
| 5 | STARCH | Rhizome | -- | -- | | |
| 5 | STARCH | Root | 25440 | 120000 | -0.818804895582863 | |
| 8 | STEARIC-ACID | Root | -- | -- | | |
| 12 | STIGMASTEROL | Root | -- | -- | | |
| 0 | STIGMASTEROL-6'-LINOLENYLGLUCOSIDE | Root | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | STIGMASTEROL-6'-LINOLYLGLUCOSIDE | Root | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | STIGMASTEROL-6'-OLEYLGLUCOSIDE | Root | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|-----------------------------------|------------------|---------|----------|----------------------|---|
| 0 | STIGMASTEROL-6'-PALMITYLGLUCOSIDE | Root | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | STIGMASTEROL-6'-STEARYLGLUCOSIDE | Root | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 7 | SUCCINIC-ACID | Root | -- | -- | | |
| 14 | SUCROSE | Root | 1300 | 226000 | 1.0351788500330728 | |
| 14 | SUCROSE | Rhizome | -- | -- | | |
| 14 | SUCROSE | Leaf | -- | 6400 | -0.9162072066569106 | |
| 14 | SUCROSE | Stem | -- | 3500 | | |
| 0 | SUGARS | Root | 19080 | 90000 | -0.13436730873315797 | |
| 5 | SUPEROXIDE-DISMUTASE | Root | -- | -- | | |
| 41 | TANNIC-ACID | Leaf | -- | -- | | |
| 6 | TARTARIC-ACID | Root | -- | -- | | |
| 18 | TERPINEOL | Root Essent. Oil | -- | -- | | |
| 18 | TERPINEOL | Root | -- | -- | | Wichtl, M. 1984. Teedrogen. Ein Handbuch für Apotheker und Ärzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp. |
| 31 | THIAMIN | Root | 1.7 | 1.7 | -0.4425168354864589 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |
| 0 | THIAMINE | Root | 0.4 | 1.7 | -0.5227719246853555 | |
| 4 | THREONINE | Leaf | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|----------------------|------------------|---------|----------|---------------------|--------------------|
| 4 | THREONINE | Root | -- | -- | | |
| 0 | THUJ-4(10)-ENE | Root | -- | -- | | |
| 4 | TIN | Root | 3.4 | 16 | -0.0494227816847916 | |
| 1 | TOLUENE | Shoot | -- | -- | | |
| 0 | TRACE-ELEMENTS | Root | -- | -- | | |
| 2 | TRANS-BETA-FARNESENE | Root Essent. Oil | -- | 80000 | 0.947568920739301 | |
| 2 | TRANS-BETA-FARNESENE | Plant | -- | -- | | |
| 0 | TRANS-CARYOPHYLLENE | Root Essent. Oil | -- | -- | | |
| 0 | TRANS-CARYOPHYLLENE | Plant | -- | -- | | |
| 0 | TRICOSANOIC-ACID | Root | -- | -- | | |
| 2 | TRIFOLIN | Leaf | -- | -- | | |
| 2 | TRIFOLIN | Shoot | -- | -- | | |
| 0 | TRIMETHYL-PYRAZINE | Root | -- | -- | | |
| 0 | TRIPALMITIN | Rhizome | -- | -- | | |
| 0 | TRIPALMITIN | Root | -- | -- | | |
| 8 | TYROSINE | Root | -- | -- | | |
| 8 | TYROSINE | Leaf | -- | -- | | |
| 0 | URACIL | Root | -- | -- | | |
| 0 | URIDINE | Root | -- | -- | | |
| 3 | VALINE | Leaf | -- | -- | | |
| 3 | VALINE | Root | -- | -- | | |
| 24 | VANILLIC-ACID | Root | -- | 55 | 0.9214964116563734 | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|---------------|----------------|---------|----------|---------------------|--|
| 24 | VANILLIC-ACID | Plant | -- | -- | | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| 0 | VICILIN | Endosperm | -- | -- | | |
| 2 | VIOLAXANTHIN | Leaf | -- | -- | | |
| 0 | VITAMIN-B12 | Root | -- | -- | | |
| 0 | WATER | Root | -- | 788000 | 0.12275678708782596 | |
| 3 | XYLOSE | Root | -- | -- | | |
| 3 | XYLOSE | Tissue Culture | -- | -- | | |
| 77 | ZINC | Root | -- | -- | | |
| 77 | ZINC | Leaf | -- | -- | | |
| 77 | ZINC | Fruit | -- | -- | | |
| 77 | ZINC | Petiole | -- | -- | | |
| 77 | ZINC | Stem | -- | -- | | |