

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Brassica oleracea var. botrytis I.

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Refernce Citation |
|------------------|----------------------|------------|----------|----------|----------------------|-------------------|
| 0 | WATER | Plant | 894000.0 | 926000.0 | 0.6638590552985428 | -- |
| 0 | WATER | Leaf | 890000.0 | 910230.0 | 0.5118312318849885 | -- |
| 0 | CARBOHYDRATES | Flower | 49200.0 | 635660.0 | -0.14105375622194907 | -- |
| 0 | CARBOHYDRATES | Leaf | 52400.0 | 562776.0 | -0.3902639822213213 | -- |
| 0 | PROTEIN | Leaf | 28710.0 | 331159.0 | 1.1902719416088388 | -- |
| 0 | PROTEIN | Flower | 18680.0 | 300000.0 | 1.8233202818155771 | -- |
| 15 | FIBER | Flower | 8000.0 | 132000.0 | 0.00499085884442514 | -- |
| 15 | FIBER | Leaf | 10760.0 | 122866.0 | -0.47818554218157117 | -- |
| 0 | ASH | Flower | 6600.0 | 121250.0 | 1.2014906628657485 | -- |
| 0 | ASH | Leaf | 2800.0 | 101708.0 | -0.30205081182588317 | -- |
| 0 | NITROGEN | Leaf | 7000.0 | 71800.0 | 1.400721017239793 | -- |
| 28 | CALCIUM | Leaf | 360.0 | 54247.0 | 2.4468006382605774 | -- |
| 14 | POTASSIUM | Flower | 3300.0 | 49080.0 | 3.0578856743972493 | -- |
| 0 | NITROGEN | Flower | 3100.0 | 47500.0 | 1.0 | -- |
| 0 | FAT | Leaf | 3160.0 | 41242.0 | -0.30328791009066547 | -- |
| 8 | GLUTAMIC-ACID | Leaf | 3750.0 | 40275.0 | 0.12712766718145815 | -- |
| 14 | POTASSIUM | Leaf | 3178.0 | 37270.0 | 0.3058332790917791 | -- |
| 8 | GLUTAMIC-ACID | Flower | 2650.0 | 34240.0 | | -- |
| 0 | FAT | Flower | 1800.0 | 29400.0 | -0.4465051083149715 | -- |
| 3 | ASPARTIC-ACID | Leaf | 2130.0 | 22876.0 | -0.262328714251028 | -- |
| 0 | OXALATE | Leaf | 1900.0 | 20406.0 | -0.28520935704631206 | -- |
| 14 | ARGININE | Leaf | 1450.0 | 15573.0 | -0.25040545078848814 | -- |
| 4 | LYSINE | Leaf | 1410.0 | 15143.0 | 0.5181729835111131 | -- |
| 0 | GLUCOERUCIN | Leaf | 0.0 | 15020.0 | | -- |
| 2 | LEUCINE | Flower | 1160.0 | 15000.0 | | -- |
| 2 | LEUCINE | Leaf | 1310.0 | 14069.0 | -0.3764770761728601 | -- |
| 15 | ALPHA-LINOLENIC-ACID | Leaf | 1290.0 | 13855.0 | 1.243183883058032 | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Refernce Citation |
|------------------|----------------|------------|---------|----------|-----------------------|-------------------|
| 4 | LYSINE | Flower | 1070.0 | 13825.0 | | -- |
| 3 | VALINE | Leaf | 1280.0 | 13747.0 | 0.29552238675671566 | -- |
| 3 | ALANINE | Flower | 1050.0 | 13565.0 | | -- |
| 1 | SERINE | Flower | 1040.0 | 13440.0 | | -- |
| 3 | VALINE | Flower | 1000.0 | 12920.0 | | -- |
| 3 | ALANINE | Leaf | 1180.0 | 12673.0 | 0.017867252591863454 | -- |
| 14 | ARGININE | Flower | 960.0 | 12400.0 | | -- |
| 0 | PROLINE | Leaf | 1140.0 | 12244.0 | 0.14474263630065312 | -- |
| 14 | SULFUR | Leaf | 1200.0 | 11800.0 | 1.6302603378370644 | -- |
| 3 | ISOLEUCINE | Leaf | 1090.0 | 11707.0 | -0.09196747371544084 | -- |
| 0 | PROLINE | Flower | 860.0 | 11110.0 | | -- |
| 1 | SERINE | Leaf | 1000.0 | 10740.0 | -0.003085924608790074 | -- |
| 4 | PUFA | Flower | 830.0 | 10725.0 | 1.333147880984072 | -- |
| 112 | ASCORBIC-ACID | Leaf | 911.0 | 10360.0 | 0.5173558895778465 | -- |
| 12 | GLYCINE | Leaf | 950.0 | 10203.0 | -0.05657990592554876 | -- |
| 3 | ISOLEUCINE | Flower | 760.0 | 9820.0 | | -- |
| 4 | THREONINE | Leaf | 910.0 | 9773.0 | -0.005488458413534491 | -- |
| 112 | ASCORBIC-ACID | Flower | 660.0 | 9300.0 | 2.0283569773652044 | -- |
| 4 | THREONINE | Flower | 720.0 | 9300.0 | | -- |
| 7 | PHENYLALANINE | Flower | 710.0 | 9175.0 | | -- |
| 4 | PHOSPHORUS | Leaf | 644.0 | 9090.0 | 0.7577587277969241 | -- |
| 7 | PHENYLALANINE | Leaf | 840.0 | 9022.0 | -0.32366072893862124 | -- |
| 1 | GLUCORAPHANIN | Leaf | 255.0 | 8990.0 | | -- |
| 12 | GLYCINE | Flower | 640.0 | 8270.0 | | -- |
| 0 | LINOLENIC-ACID | Flower | 640.0 | 8270.0 | 1.0 | -- |
| 4 | PHOSPHORUS | Flower | 385.0 | 7375.0 | 1.5411143666705196 | -- |
| 8 | TYROSINE | Leaf | 630.0 | 6766.0 | -0.34477094479123366 | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|----------------|------------|---------|----------|------------------------|--|
| 0 | AMMONIA(NH3) | Flower | | 6376.0 | -1.2099685441032595 | -- |
| 8 | TYROSINE | Flower | 430.0 | 5555.0 | | -- |
| 7 | HISTIDINE | Leaf | 500.0 | 5370.0 | -0.0031655528062669996 | -- |
| 7 | HISTIDINE | Flower | 400.0 | 5165.0 | | -- |
| 13 | PALMITIC-ACID | Leaf | 470.0 | 5048.0 | -0.2927982427753776 | -- |
| 27 | LINOLEIC-ACID | Leaf | 380.0 | 4081.0 | -0.6928297779549968 | -- |
| 28 | CALCIUM | Flower | 210.0 | 4040.0 | -0.4787571488570857 | -- |
| 15 | METHIONINE | Leaf | 340.0 | 3652.0 | 0.46965125289987986 | -- |
| 15 | METHIONINE | Flower | 280.0 | 3615.0 | | -- |
| 0 | SFA | Flower | 270.0 | 3490.0 | -0.423152594485768 | -- |
| 29 | TRYPTOPHAN | Flower | 260.0 | 3360.0 | | -- |
| 29 | TRYPTOPHAN | Leaf | 290.0 | 3115.0 | 0.10979300838520059 | -- |
| 13 | PALMITIC-ACID | Flower | 240.0 | 3100.0 | 0.13966281921675727 | -- |
| 0 | KILOCALORIES | Plant | 240.0 | 3100.0 | -0.18505812231826163 | -- |
| 1 | SODIUM | Leaf | 252.0 | 3091.0 | -0.09830203577402047 | -- |
| 65 | MAGNESIUM | Leaf | 214.0 | 3072.0 | -0.406886321355332 | -- |
| 0 | KILOCALORIES | Leaf | 280.0 | 3007.0 | -0.017863523924990066 | -- |
| 2 | CYSTINE | Flower | 230.0 | 2970.0 | | -- |
| 18 | OLEIC-ACID | Leaf | 240.0 | 2578.0 | -0.3066324749217592 | -- |
| 27 | LINOLEIC-ACID | Flower | 190.0 | 2455.0 | 0.4542076634572454 | -- |
| 1 | SODIUM | Flower | 120.0 | 2300.0 | 0.7325478785988843 | -- |
| 65 | MAGNESIUM | Flower | 115.0 | 2250.0 | -0.4063280335551449 | -- |
| 2 | CYSTINE | Leaf | 200.0 | 2148.0 | -0.6472110127615397 | -- |
| 0 | GLUCOSINOLATES | Leaf | 70.0 | 2120.0 | | -- |
| 2 | PHYTOSTEROLS | Flower | 180.0 | 1800.0 | | Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.) |
| 1 | GLUCOBRASSICIN | Flower | 60.0 | 1670.0 | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|--------------------------|------------|---------|----------|----------------------|--|
| 1 | GLUCOIBERIN | Flower | 0.0 | 1600.0 | | -- |
| 13 | MUFA | Flower | 120.0 | 1550.0 | 0.46291004988627577 | -- |
| 18 | OLEIC-ACID | Flower | 120.0 | 1550.0 | 0.47798392866277417 | -- |
| 47 | BETA-SITOSTEROL | Flower | 120.0 | 1200.0 | -0.7745775450534552 | Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.) |
| 0 | GLUCOSINOLATES | Flower | 20.0 | 1140.0 | | -- |
| 1 | GLUCORAPHANIN | Flower | 0.0 | 990.0 | | -- |
| 1 | NEOGLUCOBRASSICIN | Leaf | 10.0 | 900.0 | | -- |
| 8 | STEARIC-ACID | Leaf | 70.0 | 752.0 | -0.13186141525885503 | -- |
| 1 | GLUCOBRASSICIN | Leaf | 30.0 | 580.0 | | -- |
| 0 | 4-METHOXY-GLUCOBRASSICIN | Leaf | 8.0 | 580.0 | | -- |
| 1 | NEOGLUCOBRASSICIN | Flower | 8.0 | 450.0 | | -- |
| 32 | ALPHA-TOCOPHEROL | Leaf | 7.0 | 439.0 | 0.35927304562664447 | -- |
| 8 | STEARIC-ACID | Flower | 30.0 | 390.0 | 0.6447612226140537 | -- |
| 1 | 4-HYDROXY-GLUCOBRASSICIN | Flower | 7.0 | 390.0 | | -- |
| 0 | 4-METHOXY-GLUCOBRASSICIN | Flower | 15.0 | 355.0 | | -- |
| 1 | 4-HYDROXY-GLUCOBRASSICIN | Leaf | 3.0 | 325.0 | | -- |
| 7 | SINIGRIN | Flower | 0.0 | 325.0 | | -- |
| 2 | CAMPESTEROL | Flower | 30.0 | 300.0 | | Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.) |
| 1 | GLUCOIBERIN | Leaf | 0.0 | 248.0 | | -- |
| 0 | GLUCOERUCIN | Flower | 0.0 | 210.0 | | -- |
| 12 | STIGMASTEROL | Flower | 20.0 | 200.0 | | Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.) |
| 5 | ALUMINUM | Flower | 1.0 | 150.0 | 0.9080903837793464 | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Refernce Citation |
|------------------|-------------------|------------|---------|----------|----------------------|-------------------|
| 1 | GLUCONASTURTIN | Leaf | 0.0 | 145.0 | | -- |
| 53 | BETA-CAROTENE | Leaf | 9.0 | 138.0 | -0.5369565297726103 | -- |
| 0 | GLUCONAPOLEIFERIN | Leaf | 9.0 | 135.0 | | -- |
| 4 | SILICON | Flower | 2.0 | 125.0 | 2.1795902118292325 | -- |
| 6 | IRON | Flower | 5.0 | 122.0 | -0.3012855132197258 | -- |
| 77 | ZINC | Leaf | 4.0 | 118.0 | 0.19739995136190341 | -- |
| 6 | IRON | Leaf | 8.0 | 109.0 | -0.6442917506016965 | -- |
| 77 | ZINC | Flower | 3.0 | 97.0 | 3.0606347490514247 | -- |
| 4 | SILICON | Leaf | 1.0 | 90.0 | -0.14550202645318341 | -- |
| 4 | BORON | Leaf | 1.0 | 85.0 | 0.6469238451071857 | -- |
| 39 | NIACIN | Flower | 5.0 | 85.0 | -0.09352864336463278 | -- |
| 14 | MANGANESE | Leaf | 2.0 | 80.0 | -0.32688920745367256 | -- |
| 0 | GLUCONAPOLEIFERIN | Flower | 0.0 | 80.0 | | -- |
| 4 | BORON | Flower | 1.0 | 76.0 | 1.2304541664359345 | -- |
| 9 | OXALIC-ACID | Plant | | 68.0 | -0.5351320075910592 | -- |
| 1 | METHYL-AMINE | Flower | | 65.0 | 1.0000000000000002 | -- |
| 11 | PANTOTHENIC-ACID | Leaf | 5.35 | 63.0 | 0.8524389937224381 | -- |
| 1 | PROGOITRIN | Flower | 0.0 | 60.0 | | -- |
| 12 | COPPER | Leaf | 0.68 | 52.0 | 0.6699011255650867 | -- |
| 14 | MANGANESE | Flower | 1.5 | 48.0 | -0.2230146829051698 | -- |
| 9 | SINAPIC-ACID | Leaf | | 40.0 | -0.5050096614914733 | -- |
| 25 | P-COUMARIC-ACID | Flower | | 35.0 | | -- |
| 0 | VIT-B-6 | Flower | 2.0 | 30.0 | 1.0 | -- |
| 75 | KAEMPFEROL | Flower | | 30.0 | -1.0760015465680726 | -- |
| 5 | ALUMINUM | Leaf | 1.0 | 27.0 | -0.7515974845433717 | -- |
| 0 | RUBIDIUM | Leaf | 1.0 | 23.0 | -0.6707091074151935 | -- |
| 0 | ANILINE | Flower | | 22.0 | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Refernce Citation |
|------------------|------------------------------|------------|---------|----------|----------------------|-------------------|
| 4 | BORON | Stem | | 21.0 | -0.7419113414039952 | -- |
| 15 | RIBOFLAVIN | Leaf | 1.1 | 21.0 | -0.07942432526480918 | -- |
| 11 | PANTOTHENIC-ACID | Flower | 1.4 | 18.0 | -1.0 | -- |
| 0 | VIT-B-6 | Leaf | 1.6 | 18.0 | 0.24648148618924984 | -- |
| 2 | DIMETHYL-AMINE | Flower | | 14.0 | 1.0 | -- |
| 61 | FERULIC-ACID | Leaf | | 13.0 | 0.08918222301645602 | -- |
| 25 | P-COUMARIC-ACID | Leaf | | 13.0 | -0.3465642412720655 | -- |
| 3 | NICKEL | Flower | 0.03 | 12.0 | 1.0 | -- |
| 31 | THIAMIN | Flower | 0.6 | 12.0 | 1.9586178131455851 | -- |
| 0 | RUBIDIUM | Flower | 0.43 | 11.0 | | -- |
| 15 | RIBOFLAVIN | Flower | 0.3 | 11.0 | 1.1243491725579133 | -- |
| 15 | FOLACIN | Leaf | 0.64 | 8.4 | -0.15226470429048047 | -- |
| 31 | THIAMIN | Leaf | 0.6 | 8.0 | -0.06349209547044472 | -- |
| 12 | COPPER | Flower | 0.3 | 8.0 | -0.9960623124329469 | -- |
| 102 | CAFFEIC-ACID | Leaf | | 8.0 | -0.7148173591555008 | -- |
| 3 | NICKEL | Leaf | 0.3 | 7.0 | -0.28467312579555515 | -- |
| 176 | QUERCETIN | Flower | | 6.0 | -1.4106513565908647 | -- |
| 32 | ALPHA-TOCOPHEROL | Flower | 0.3 | 4.0 | -1.0 | -- |
| 53 | BETA-CAROTENE | Flower | | 4.0 | -0.5606735845287268 | -- |
| 2 | MOLYBDENUM | Leaf | 0.1 | 3.76 | 0.6801012829363977 | -- |
| 0 | N-PENTYL-AMINE | Flower | | 3.3 | | -- |
| 0 | FLUORINE | Flower | 0.02 | 2.5 | | -- |
| 3 | PHENETHYLAMINE | Flower | | 1.8 | | -- |
| 2 | MOLYBDENUM | Stem | | 1.76 | -0.13934558811150258 | -- |
| 0 | N-METHYL-PHENETHYLAMINE | Flower | | 1.6 | | -- |
| 0 | N-METHYL-BETA-PHENETHYLAMINE | Flower | | 1.6 | | -- |
| 0 | N-METHYL-BETA-PHENETHYLAMINE | Plant | | 1.6 | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|---|------------|---------|----------|----------------------|--------------------|
| 0 | BENZYL-AMINE | Flower | | 1.4 | | -- |
| 0 | LEAD | Leaf | 0.01 | 1.0 | -0.6352496573639428 | -- |
| 0 | FLUORINE | Leaf | 0.03 | 0.9 | -1.2049539311662678 | -- |
| 2 | COBALT | Leaf | 0.02 | 0.6 | -0.29531921745391343 | -- |
| 3 | CADMIUM | Flower | 0.003 | 0.25 | | -- |
| 24 | CHROMIUM | Leaf | 0.005 | 0.18 | -0.6314530785674829 | -- |
| 3 | CADMIUM | Leaf | 0.01 | 0.18 | -0.7863999904697607 | -- |
| 2 | COBALT | Flower | 0.001 | 0.125 | -0.5425117041971756 | -- |
| 24 | CHROMIUM | Flower | 0.001 | 0.125 | -1.3473800790006203 | -- |
| 2 | MOLYBDENUM | Flower | | 0.1 | | -- |
| 1 | MERCURY | Leaf | 0.002 | 0.09 | 1.1722789664445759 | -- |
| 1 | MERCURY | Flower | 0.0 | 0.025 | -0.9374693023756843 | -- |
| 60 | SELENIUM | Leaf | | 0.024 | -0.3807027917986485 | -- |
| 60 | SELENIUM | Stem | | 0.015 | -0.42886426089167784 | -- |
| 10 | SQUALENE | Plant | | | | -- |
| 1 | HEXYL-ACETATE | Plant | | | | -- |
| 0 | BROMINE | Leaf | | | | -- |
| 0 | 4-METHYL-THIO-BUTYL-GLUCOSINOLATE | Flower | | | | -- |
| 0 | 4-METHOXY-INDOL-3-YL-METHYL-GLUCOSINOLATE | Leaf | | | | -- |
| 0 | HEX-CIS-3-ENOL-ACETATE | Plant | | | | -- |
| 15 | MALIC-ACID | Plant | | | | -- |
| 7 | FUMARIC-ACID | Plant | | | | -- |
| 0 | 4-METHYL-SULFINYL-BUTYL-GLUCOSINOLATE | Flower | | | | -- |
| 23 | CITRIC-ACID | Plant | | | | -- |
| 7 | SINIGRIN | Plant | | | | -- |
| 0 | HEX-CIS-3-EN-1-OL | Plant | | | | -- |
| 0 | BROMINE | Flower | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Refernce Citation |
|------------------|---|------------|---------|----------|--------|-------------------|
| 0 | 4-METHOXY-INDOL-3-YL-METHYL-GLUCOSINOLATE | Flower | | | | -- |
| 1 | QUINIC-ACID | Leaf | | | | -- |
| 18 | CINNAMIC-ACID | Leaf | | | | -- |
| 3 | PHENETHYL-ISOTHIOCYANATE | Leaf | | | | -- |
| 0 | PROP-2-ENYL-GLUCOSINOLATE | Flower | | | | -- |
| 39 | NIACIN | Leaf | | | | -- |
| 24 | ETHANOL | Flower | | | | -- |
| 47 | BETA-SITOSTEROL | Plant | | | | -- |
| 44 | QUERCITRIN | Leaf | | | | -- |
| 0 | 3,3'-DIINDOYL-METHANE | Leaf | | | | -- |
| 2 | TRANS-FERULIC-ACID | Leaf | | | | -- |
| 0 | PENTEN-1-OL | Plant | | | | -- |
| 75 | KAEMPFEROL | Leaf | | | | -- |
| 2 | BETA-CRYPTOXANTHIN | Plant | | | | -- |
| 0 | LEAD | Flower | | | | -- |
| 7 | ALPHA-CAROTENE | Plant | | | | -- |
| 176 | QUERCETIN | Leaf | | | | -- |
| 21 | CHLOROPHYLL | Leaf | | | | -- |
| 10 | ALPHA-AMYRIN | Flower | | | | -- |
| 0 | 24-METHYLENE-CYCLOARTENOL | Leaf | | | | -- |
| 0 | PENTAN-3-ONE | Plant | | | | -- |
| 1 | GLUCONASTURTIN | Flower | | | | -- |
| 9 | BETA-AMYRIN | Flower | | | | -- |
| 10 | ALPHA-AMYRIN | Bud | | | | -- |
| 0 | 3-METHYLTHIOPROPYL-GLUCOSINOLATE | Flower | | | | -- |
| 77 | CHLOROGENIC-ACID | Leaf | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|--|----------------|---------|----------|--------|--------------------|
| 0 | 1-O-SINAPOYL-BETA-D-GLUCOSE | Leaf | | | | -- |
| 2 | METHANOL | Flower | | | | -- |
| 9 | BETA-AMYRIN | Bud | | | | -- |
| 16 | ALLYL-ISOTHIOCYANATE | Leaf | | | | -- |
| 0 | 3-METHYL-SULFINYL-PROPYL-GLUCOSINOLATE | Flower | | | | -- |
| 3 | ACETONE | Flower | | | | -- |
| 0 | 1-O-P-COUMAROYL-BETA-D-GLUCOSE | Leaf | | | | -- |
| 60 | SELENIUM | Flower | | | | -- |
| 0 | INDOLE-3-CARBOXYLIC-ACID | Plant | | | | -- |
| 24 | ETHANOL | Plant | | | | -- |
| 1 | PROGOITRIN | Leaf | | | | -- |
| 0 | ABSCISIC-ACID | Flower | | | | -- |
| 0 | 1-O-FERULOYL-BETA-D-GLUCOSE | Leaf | | | | -- |
| 7 | SUCCINIC-ACID | Plant | | | | -- |
| 13 | P-HYDROXY-BENZOIC-ACID | Leaf | | | | -- |
| 1 | NEOGLUCOBRASSICIN | Tissue Culture | | | | -- |
| 32 | INDOLE-3-CARBINOL | Leaf | | | | -- |
| 0 | SEC-BUTYL-ISOTHIOCYANATE | Seed | | | | -- |
| 23 | CITRIC-ACID | Flower | | | | -- |
| 2 | DIMETHYL-DISULFIDE | Plant | | | | -- |
| 3 | ACETONE | Leaf | | | | -- |
| 0 | 1-METHOXY-INDOLE-3-CARBALDEHYDE | Plant | | | | -- |
| 12 | STIGMASTEROL | Plant | | | | -- |
| 3 | INDOLE-3-ACETONITRILE | Leaf | | | | -- |
| 0 | 5-METHOXY-GLUCOBRASSICIN | Tissue Culture | | | | -- |
| 34 | SALICYLIC-ACID | Leaf | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Refernce Citation |
|------------------|-------------------------------|----------------|---------|----------|--------|-------------------|
| 2 | METHANOL | Plant | | | | -- |
| 15 | MALIC-ACID | Flower | | | | -- |
| 0 | INDOYL-3-METHYL-GLUCOSINOLATE | Flower | | | | -- |
| 2 | ARSENIC | Flower | | | | -- |
| 0 | 5-METHOXY-GLUCOBRASSICIN | Leaf | | | | -- |
| 2 | PHYTOSTEROLS | Plant | | | | -- |
| 0 | 1-METHOXY-GLUCOBRASSICIN | Leaf | | | | -- |
| 1 | QUINIC-ACID | Flower | | | | -- |
| 7 | FUMARIC-ACID | Flower | | | | -- |
| 0 | 5-HYDROXY-GLUCOBRASSICIN | Tissue Culture | | | | -- |
| 87 | RUTIN | Leaf | | | | -- |
| 2 | ARSENIC | Leaf | | | | -- |
| 4 | 4-VINYL-GUAIACOL | Plant | | | | -- |
| 0 | 5-HYDROXY-GLUCOBRASSICIN | Leaf | | | | -- |
| 7 | SUCCINIC-ACID | Flower | | | | -- |
| 24 | VANILLIC-ACID | Plant | | | | -- |
| 9 | PHYTIC-ACID | Leaf | | | | -- |