

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Lepidium sativum*

| Activities Count | Chemical                             | Plant Part    | Low PPM  | High PPM | StdDev               | Refernce Citation |
|------------------|--------------------------------------|---------------|----------|----------|----------------------|-------------------|
| 0                | 4-HYDROXY-3,5-DIMETHOXYCINNAMIC-ACID | Seed          |          |          |                      | --                |
| 0                | ALKALOID                             | Seed          | 1900.0   | 2015.0   |                      | --                |
| 32               | ALPHA-TOCOPHEROL                     | Oil           |          | 1830.0   | 2.0035213900204276   | --                |
| 32               | ALPHA-TOCOPHEROL                     | Leaf          | 7.0      | 66.0     | -0.9080803501097781  | --                |
| 0                | ARACHIDIC-ACID                       | Seed          | 2450.0   | 3925.0   | -0.27156253057642016 | --                |
| 112              | ASCORBIC-ACID                        | Leaf          | 690.0    | 6510.0   | 0.16012494862868643  | --                |
| 0                | ASH                                  | Seed          | 57000.0  | 60440.0  | 0.3777716144387012   | --                |
| 0                | ASH                                  | Leaf          | 18000.0  | 169800.0 | 0.897646634308261    | --                |
| 1                | BEHENIC-ACID                         | Seed          | 2750.0   | 4410.0   | -0.26522344507241363 | --                |
| 0                | BENZYL-CYANIDE                       | Plant         |          |          |                      | --                |
| 20               | BENZYL-ISOTHIOCYANATE                | Plant         |          |          |                      | --                |
| 5                | BENZYL-THIOCYANATE                   | Essential Oil |          |          |                      | --                |
| 53               | BETA-CAROTENE                        | Leaf          | 20.0     | 526.0    | 1.1527627160656782   | --                |
| 47               | BETA-SITOSTEROL                      | Seed          |          |          |                      | --                |
| 28               | CALCIUM                              | Seed          | 3100.0   | 3290.0   | -0.1572880835353832  | --                |
| 28               | CALCIUM                              | Leaf          | 810.0    | 20340.0  | 0.130015166113504    | --                |
| 0                | CARBOHYDRATES                        | Leaf          | 55000.0  | 518870.0 | -0.7394315005117013  | --                |
| 1                | CELLULOSE                            | Seed          |          | 9150.0   | -1.0859323179992477  | --                |
| 2                | COBALT                               | Leaf          |          | 0.012    | -0.2988141345084901  | --                |
| 0                | D-GALACTURONIC-ACID                  | Seed          |          |          |                      | --                |
| 0                | D-GLUCURONIC-GALACTOSIDE             | Seed          |          |          |                      | --                |
| 0                | D-XYLOSE                             | Seed          |          |          |                      | --                |
| 25               | DIALLYL-SULFIDE                      | Essential Oil |          |          |                      | --                |
| 0                | EO                                   | Plant         |          | 1150.0   | -0.6527306283672362  | --                |
| 2                | ERUCIC-ACID                          | Leaf          | 910.0    | 8585.0   | 0.3997423155436001   | --                |
| 0                | FAT                                  | Seed          | 150000.0 | 255000.0 | -0.05471515869868224 | --                |

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|------------------|-----------------|------------|----------|----------|-----------------------|-------------------|
| 0                | FAT             | Leaf       | 7000.0   | 66040.0  | 0.19085657387853744   | --                |
| 15               | FIBER           | Leaf       | 11000.0  | 103775.0 | -0.7142676493973603   | --                |
| 0                | GADOLEIC-ACID   | Leaf       | 610.0    | 5755.0   | 1.1833643199314339    | --                |
| 0                | GLUCOTROPAEOLIN | Plant      |          |          |                       | --                |
| 12               | IODINE          | Leaf       |          | 0.11     | -1.0096875885880112   | --                |
| 6                | IRON            | Leaf       | 13.0     | 286.0    | -0.19564320884585473  | --                |
| 0                | KILOCALORIES    | Leaf       | 320.0    | 3020.0   | 0.0030913391217523567 | --                |
| 0                | L-ARABINOSE     | Seed       |          |          |                       | --                |
| 0                | L-RHAMNOSE      | Seed       |          |          |                       | --                |
| 1                | LIGNOCERIC-ACID | Seed       | 320.0    | 510.0    | -0.5583807882888466   | --                |
| 27               | LINOLEIC-ACID   | Leaf       | 1520.0   | 14340.0  | 1.04104744440421524   | --                |
| 0                | LINOLENIC-ACID  | Seed       | 44550.0  | 71400.0  | 0.6666049168891296    | --                |
| 0                | LINOLENIC-ACID  | Leaf       | 760.0    | 7170.0   | -0.3571080740801977   | --                |
| 3                | MUCILAGE        | Seed       |          | 50000.0  | -0.9282499219906043   | --                |
| 13               | MUFA            | Leaf       | 2390.0   | 22545.0  | 1.462627658573604     | --                |
| 0                | MYROSIN         | Plant      |          |          |                       | --                |
| 39               | NIACIN          | Leaf       | 10.0     | 95.0     | -0.030418329796116125 | --                |
| 3                | NICKEL          | Leaf       |          | 0.04     | -0.4422807587307894   | --                |
| 18               | OLEIC-ACID      | Seed       | 97450.0  | 156200.0 | 0.3049555009223302    | --                |
| 18               | OLEIC-ACID      | Leaf       | 870.0    | 8210.0   | 0.500732695138712     | --                |
| 13               | PALMITIC-ACID   | Seed       | 2020.0   | 3240.0   | -0.6327493366692233   | --                |
| 13               | PALMITIC-ACID   | Leaf       | 160.0    | 1510.0   | -0.3616671545916463   | --                |
| 4                | PHOSPHORUS      | Seed       | 16500.0  | 17500.0  | 3.2098608816684266    | --                |
| 4                | PHOSPHORUS      | Leaf       | 760.0    | 7170.0   | 0.4045037319671731    | --                |
| 14               | POTASSIUM       | Leaf       | 6060.0   | 57170.0  | 1.184572789526858     | --                |
| 0                | PROTEIN         | Seed       | 235000.0 | 249180.0 | 0.13684804637379244   | --                |
| 0                | PROTEIN         | Leaf       | 26000.0  | 327685.0 | 1.1556154349408743    | --                |

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| 4                | PUFA         | Leaf       | 2280.0   | 21500.0  | 0.26713948072467186   | --                |
| 15               | RIBOFLAVIN   | Leaf       | 1.7      | 25.0     | -0.060674382795977866 | --                |
| 0                | SFA          | Leaf       | 230.0    | 2170.0   | -0.5595267223432824   | --                |
| 9                | SINAPIC-ACID | Seed       |          |          |                       | --                |
| 0                | SINAPIN      | Seed       |          |          |                       | --                |
| 1                | SODIUM       | Leaf       | 140.0    | 1320.0   | -0.4128438201789938   | --                |
| 8                | STEARIC-ACID | Seed       | 9560.0   | 15325.0  | -0.2328895793915901   | --                |
| 8                | STEARIC-ACID | Leaf       | 70.0     | 660.0    | -0.19180777517367403  | --                |
| 14               | SULFUR       | Seed       | 9000.0   | 9545.0   | 3.9651698056626064    | --                |
| 31               | THIAMIN      | Leaf       | 0.8      | 7.5      | -0.1676939679321966   | --                |
| 0                | URIC-ACID    | Seed       |          | 108.0    | 1.0                   | --                |
| 0                | VIT-B-6      | Leaf       | 2.5      | 23.0     | 0.7204843442454993    | --                |
| 0                | WATER        | Seed       |          | 56900.0  | -0.6550743472779081   | --                |
| 0                | WATER        | Leaf       | 823000.0 | 894000.0 | 0.4308600549636226    | --                |