

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Lupinus mutabilis*

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Refernce Citation |
|------------------|---------------|------------|----------|----------|----------------------|-------------------|
| 0 | PROTEIN | Fruit | 137000.0 | 479000.0 | 4.953327745874761 | -- |
| 0 | PROTEIN | Seed | 410000.0 | 510000.0 | 2.4569770193242495 | -- |
| 0 | KILOCALORIES | Fruit | 1260.0 | 4405.0 | 1.1306879253198954 | -- |
| 4 | PHOSPHORUS | Fruit | 1680.0 | 5875.0 | 0.807645721612481 | -- |
| 0 | FAT | Fruit | 51000.0 | 178000.0 | 0.7182975924499655 | -- |
| 15 | RIBOFLAVIN | Seed | 4.4 | 4.9 | 0.5272746510341323 | -- |
| 4 | PHOSPHORUS | Seed | 6350.0 | 7100.0 | 0.4615671013893586 | -- |
| 15 | RIBOFLAVIN | Fruit | 1.5 | 5.2 | 0.04084171538244231 | -- |
| 0 | FAT | Seed | 140000.0 | 240000.0 | -0.13372552418655537 | -- |
| 0 | KILOCALORIES | Seed | 4070.0 | 4675.0 | -0.14383795137333108 | -- |
| 53 | BETA-CAROTENE | Fruit | 0.3 | 1.0 | -0.14886764714786266 | -- |
| 0 | WATER | Fruit | | 714000.0 | -0.24599659825480744 | -- |
| 6 | IRON | Fruit | 19.0 | 66.0 | -0.26568397107756236 | -- |
| 0 | ASH | Seed | 35000.0 | 39000.0 | -0.26709277199518927 | -- |
| 31 | THIAMIN | Fruit | 0.9 | 3.1 | -0.2857986533698326 | -- |
| 15 | FIBER | Seed | 88000.0 | 98000.0 | -0.29041186552077364 | -- |
| 31 | THIAMIN | Seed | 4.7 | 5.2 | -0.33023404492310365 | -- |
| 53 | BETA-CAROTENE | Seed | 1.3 | 1.5 | -0.33554468481174715 | -- |
| 39 | NIACIN | Seed | 25.0 | 29.0 | -0.4156665552918073 | -- |
| 6 | IRON | Seed | 55.0 | 60.0 | -0.4218525745566078 | -- |
| 39 | NIACIN | Fruit | 8.0 | 28.0 | -0.4371170279447218 | -- |
| 0 | WATER | Seed | 77000.0 | 104000.0 | -0.4743320003294758 | -- |
| 28 | CALCIUM | Seed | 900.0 | 1000.0 | -0.5778647843915501 | -- |
| 28 | CALCIUM | Fruit | 280.0 | 980.0 | -0.6637329250251514 | -- |
| 0 | ASH | Fruit | 8000.0 | 28000.0 | -0.7422580290226741 | -- |
| 0 | CARBOHYDRATES | Seed | 299000.0 | 334000.0 | -0.7527229518827593 | -- |
| 15 | FIBER | Fruit | 6000.0 | 21000.0 | -1.138760341922171 | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Refernce Citation |
|------------------|---------------|------------|---------|----------|---------------------|-------------------|
| 0 | CARBOHYDRATES | Fruit | 90000.0 | 315000.0 | -2.5020037781179627 | -- |
| 0 | (+)-LUPANINE | Seed | | | | -- |
| 4 | (-)-SPARTEINE | Seed | | | | -- |
| 21 | SPARTEINE | Seed | | | | -- |