

**Dr. Duke's Phytochemical and Ethnobotanical Databases**  
**Chemicals found in *Castanea mollisima***

| Activities Count | Chemical      | Plant Part | Low PPM  | High PPM | StdDev               | Refernce Citation |
|------------------|---------------|------------|----------|----------|----------------------|-------------------|
| 3                | ALANINE       | Seed       | 2012.0   | 3581.0   | -1.3977609504650124  | --                |
| 14               | ARGININE      | Seed       | 4411.0   | 7852.0   | -0.7108822291683241  | --                |
| 0                | ASH           | Seed       | 16700.0  | 29726.0  | -0.5460327122838042  | --                |
| 3                | ASPARTIC-ACID | Seed       | 8522.0   | 15169.0  | -0.6587121184740685  | --                |
| 28               | CALCIUM       | Seed       | 160.0    | 356.0    | -0.6961405028855987  | --                |
| 0                | CARBOHYDRATES | Seed       | 490700.0 | 873446.0 | 1.3911444338557615   | --                |
| 12               | COPPER        | Seed       | 4.0      | 6.0      | -0.7995157719201157  | --                |
| 2                | CYSTINE       | Seed       | 1101.0   | 1960.0   | -0.8278346773932702  | --                |
| 0                | FAT           | Seed       | 10600.0  | 20648.0  | -1.2891309702196185  | --                |
| 15               | FIBER         | Seed       | 16000.0  | 29904.0  | -0.8281095117581565  | --                |
| 8                | GLUTAMIC-ACID | Seed       | 5393.0   | 9600.0   | -1.354884887421073   | --                |
| 12               | GLYCINE       | Seed       | 1837.0   | 3271.0   | -1.1105660366132708  | --                |
| 7                | HISTIDINE     | Seed       | 1267.0   | 2256.0   | -1.0283210306605572  | --                |
| 6                | IRON          | Seed       | 14.0     | 25.0     | -0.5844732973727707  | --                |
| 3                | ISOLEUCINE    | Seed       | 1624.0   | 2890.0   | -0.9699699965829609  | --                |
| 2                | LEUCINE       | Seed       | 2701.0   | 4807.0   | -1.1748958760871548  | --                |
| 4                | LYSINE        | Seed       | 2313.0   | 4116.0   | -1.0812872422572914  | --                |
| 65               | MAGNESIUM     | Seed       | 820.0    | 1531.0   | -0.5590982709362456  | --                |
| 14               | MANGANESE     | Seed       | 12.0     | 36.0     | -0.21825889453881178 | --                |
| 15               | METHIONINE    | Seed       | 1014.0   | 1804.0   | -0.6483359273053518  | --                |
| 7                | PHENYLALANINE | Seed       | 2178.0   | 3879.0   | -0.9149107943548691  | --                |
| 4                | PHOSPHORUS    | Seed       | 940.0    | 1774.0   | -0.9458764249343258  | --                |
| 14               | POTASSIUM     | Seed       | 4320.0   | 8224.0   | -0.38220729183775864 | --                |
| 0                | PROLINE       | Seed       | 1632.0   | 2904.0   | -1.6565168249870692  | --                |
| 0                | PROTEIN       | Seed       | 41900.0  | 74938.0  | -1.4131247797316957  | --                |
| 1                | SERINE        | Seed       | 1820.0   | 3255.0   | -1.4027490378531695  | --                |
| 1                | SODIUM        | Seed       | 30.0     | 53.0     | -0.6315832480483937  | --                |

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|------------------|------------|------------|---------|----------|---------------------|-------------------|
| 4                | THREONINE  | Seed       | 1806.0  | 3214.0   | -1.1013490917681512 | --                |
| 29               | TRYPTOPHAN | Seed       | 491.0   | 874.0    | -0.8359052072916144 | --                |
| 8                | TYROSINE   | Seed       | 1536.0  | 2735.0   | -1.1596952571003898 | --                |
| 3                | VALINE     | Seed       | 2233.0  | 3976.0   | -0.9896551614259114 | --                |
| 77               | ZINC       | Seed       | 8.0     | 17.0     | -0.798674515765676  | --                |