

## Presence of Compounds in Condurango (*Marsdenia cundurango*)

| Compound                | Chemical Type   | Plant Part   | Plant Origin   | Quantity   | Ref #  |
|-------------------------|-----------------|--|--|--|--|
| Aesculetin              | Coumarin        | Bark   | Not stated   | Not stated   | T04060   |
| Amyrin, beta:           | Triterpene      | Trunk bark   | Not stated   | Not stated   | A04027   |
| Amyrin, beta: cinnamate | Triterpene      | Trunk bark<br>Trunk bark<br>Bark<br>Bark                 | Not stated<br>Not stated<br>Not stated<br>Not stated                             | Not stated<br>Not stated<br>Not stated<br>Not stated                             | A03954<br>A04027<br>M08531<br>ZZ1047                     |
| Bornesitol, D:          | Carbohydrate    | Leaf   | Not stated   | Not stated   | A02619   |
| Boron                   | Inorganic       | Trunk bark   | Not stated   | 350 ppm  | A03969   |
| Caffeic acid            | Phenylpropanoid | Bark<br>Bark   | Not stated<br>Not stated   | Not stated<br>Not stated   | T04060<br>T06297   |
| Caoutchouc              |                 | Latex  | Not stated   | 60,000 ppm   | ZZ1047   |
| Chlorogenic acid        | Phenylpropanoid | Bark<br>Bark   | Not stated<br>Not stated   | Not stated<br>Not stated   | T04060<br>T06297   |
| Chlorogenic acid, neo:  | Phenylpropanoid | Bark<br>Bark   | Not stated<br>Not stated   | Not stated<br>Not stated   | T04060<br>T06297   |
| Cichoriin               | Coumarin        | Bark   | Not stated   | Not stated   | T04060   |
| Cinnamic acid           | Phenylpropanoid | Trunk bark<br>Trunk bark<br>Bark                         | Not stated<br>Not stated<br>Not stated   | Not stated<br>Not stated<br>Not stated   | A03954<br>A04027<br>M08531                               |
| Condurangin             | Steroid         | Trunk bark<br>Trunk bark<br>Bark<br>Bark<br>Bark<br>Bark | Not stated<br>Not stated<br>Not stated<br>Not stated<br>Not stated<br>Not stated | Not stated<br>Not stated<br>Not stated<br>Not stated<br>Not stated<br>20,000 ppm | A04019<br>J10154<br>M08530<br>M08531<br>T09563<br>ZZ1047 |
| Condurangogenin B       | Steroid         | Bark   | Not stated   | Not stated   | T04204<br>T05163   |

| Compound                                  | Chemical Type | Plant Part                   | Plant Origin                              | Quantity  | Ref #                                |
|---|---------------|------------------------------|---|---|--------------------------------------|
| Condurangogenin C                         | Steroid       | Bark                         | Not stated                                | Not stated  | T05163                               |
| Condurangoglycoside 10                    | Steroid       | Bark                         | Not stated                                | 00.12%  | H13984                               |
| Condurangoglycoside A                     | Steroid       | Bark<br>Bark<br>Bark         | Ecuador<br>Not stated<br>Not stated       | Not stated<br>00.03030%<br>Not stated               | H04222<br>H13984<br>T08122           |
| Condurangoglycoside A hemiacetal          | Steroid       | Bark                         | Not stated                                | Not stated  | T08122                               |
| Condurangoglycoside A-0                   | Steroid       | Bark<br>Bark<br>Bark<br>Bark | Ecuador<br>Not stated<br>Ecuador<br>Japan | Not stated<br>00.18333%<br>Not stated<br>Not stated | H04222<br>H13984<br>T03050<br>W04489 |
| Condurangoglycoside A-1                   | Steroid       | Bark                         | Not stated                                | Not stated  | T08122                               |
| Condurangoglycoside B-0                   | Steroid       | Bark                         | Japan                                     | 00.08%  | M12438                               |
| Condurangoglycoside C                     | Steroid       | Bark<br>Bark<br>Bark         | Ecuador<br>Not stated<br>Not stated       | Not stated<br>00.03030%<br>Not stated               | H04222<br>H13984<br>T08122           |
| Condurangoglycoside C-0                   | Steroid       | Bark<br>Bark                 | Ecuador<br>Japan                          | Not stated<br>Not stated                            | T03050<br>W04489                     |
| Condurangoglycoside C-1                   | Steroid       | Bark                         | Not stated                                | Not stated  | T08122                               |
| Condurangoglycoside D-0                   | Steroid       | Bark<br>Bark<br>Bark         | Ecuador<br>Japan<br>Japan                 | Not stated<br>00.01%<br>Not stated                  | H04222<br>M12438<br>W04489           |
| Condurangoglycoside D-0, 20-iso-o-methyl: | Steroid       | Bark<br>Bark                 | Japan<br>Japan                            | 00.001%<br>Not stated                               | M12438<br>W04489                     |
| Condurangoglycoside D-0, 20-o-methyl:     | Steroid       | Bark                         | Japan                                     | 00.003%`  | M12438                               |
| Condurangoglycoside E                     | Steroid       | Bark<br>Bark                 | Ecuador<br>Not stated                     | Not stated<br>Not stated                            | H04222<br>T13842                     |
| Condurangoglycoside E-0                   | Steroid       | Bark<br>Bark                 | Ecuador<br>Not stated                     | Not stated<br>Not stated                            | H04222<br>T13842                     |

| Compound                 | Chemical Type   | Plant Part                               | Plant Origin   | Quantity  | Ref #                                |
|--------------------------|-----------------|--|--|---|--------------------------------------|
| Condurangoglycoside E-01 | Steroid         | Bark                                     | Japan  | Not stated  | T06252                               |
| Condurangoglycoside E-02 | Steroid         | Bark                                     | Japan  | Not stated  | T06252                               |
| Condurangoglycoside E-2  | Steroid         | Bark<br>Bark<br>Bark                     | Ecuador<br>Not stated<br>Not stated                  | Not stated<br>00.01733%<br>Not stated               | H04222<br>H13984<br>T13842           |
| Condurangoglycoside E-3  | Steroid         | Bark<br>Bark<br>Bark                     | Ecuador<br>Not stated<br>Not stated                  | Not stated<br>00.06333%<br>Not stated               | H04222<br>H13984<br>T13842           |
| Condurangoside A         | Steroid         | Bark                                     | Not stated   | 00.0045%  | H13984                               |
| Condurangoside A-0       | Steroid         | Bark                                     | Not stated   | 00.06666%   | H13984                               |
| Condurangoside B         | Steroid         | Bark                                     | Not stated   | 00.011666%  | H13984                               |
| Condurangoside B-0       | Steroid         | Bark                                     | Not stated   | 00.07666%   | H13984                               |
| Condurangoside C-0       | Steroid         | Bark                                     | Not stated   | 00.05666%   | H13984                               |
| Condurangoside D-01      | Steroid         | Bark                                     | Not stated   | 00.00426%   | H13984                               |
| Condurangoside FC        | Steroid         | Bark                                     | Not stated   | 00.01166%   | H13984                               |
| Condurangotriose, neo:   | Carbohydrate    | Bark<br>Bark                             | Japan<br>Japan                                       | Not stated<br>Not stated                            | T08594<br>T08953                     |
| Conduritol               | Carbohydrate    | Leaf<br>Trunk bark<br>Trunk bark<br>Bark | Not stated<br>Not stated<br>Not stated<br>Not stated | Not stated<br>Not stated<br>Not stated<br>5,000 ppm | A02619<br>A04018<br>A04026<br>ZZ1047 |
| Coumaric acid, para:     | Phenylpropanoid | Bark                                     | Not stated   | Not stated  | T04060                               |
| Coumarin                 | Coumarin        | Bark                                     | Not stated   | Not stated  | T04060                               |
| Cymarose, D              | Steroid         | Bark                                     | Not stated   | Not stated  | ZZ1047                               |
| Drevogenin D             | Steroid         | Trunk bark<br>Bark                       | Not stated<br>Not stated                             | Not stated<br>Not stated                            | A03963<br>ZZ1047                     |

| Compound                                 | Chemical Type | Plant Part                            | Plant Origin                           | Quantity                               | Ref #                      |
|--|---------------|---------------------------------------|--|--|----------------------------|
| Drevogenin D, dihydro:                   | Steroid       | Trunk bark<br>Bark                    | Not stated<br>Not stated               | Not stated<br>Not stated               | A03963<br>ZZ1047           |
| Glycerol                                 | Lipid         | Trunk bark                            | Not stated                             | Not stated                             | A04027                     |
| Glucose, D                               | Lipid         | Bark                                  | Not stated                             | Not stated                             | ZZ1047                     |
| Hyperoside                               | Flavonol      | Bark                                  | Not stated                             | Not stated                             | T06297                     |
| Inositol, D:                             | Carbohydrate  | Leaf                                  | Not stated                             | Not stated                             | A02619                     |
| Kondurangamine A                         | Steroid       | Bark                                  | Peru                                   | Not stated                             | J07602                     |
| Kondurangamine B                         | Steroid       | Bark                                  | Peru                                   | Not stated                             | J07602                     |
| Kondurangin                              | Steroid       | Trunk bark<br>Stem bark               | Not stated<br>Not stated               | 2.26%<br>3.30%                         | A04554<br>A04560           |
| Kondurangogenin A                        | Steroid       | Trunk bark<br>Trunk bark<br>Stem bark | Not stated<br>Not stated<br>Not stated | Not stated<br>Not stated<br>Not stated | A03961<br>A03962<br>A04560 |
| Kondurangogenin A-1                      | Steroid       | Trunk bark                            | Not stated                             | Not stated                             | A03962                     |
| Kondurangogenin C                        | Steroid       | Trunk bark<br>Trunk bark              | Not stated<br>Not stated               | Not stated<br>Not stated               | A03961<br>A03962           |
| Kondurangogenin C-1                      | Steroid       | Trunk bark                            | Not stated                             | Not stated                             | A03962                     |
| Kondurangoglycoside A                    | Steroid       | Trunk bark                            | Not stated                             | Not stated                             | A03962                     |
| Kondurangoglycoside A-1                  | Steroid       | Trunk bark                            | Not stated                             | Not stated                             | A03962                     |
| Kondurangoglycoside C                    | Steroid       | Trunk bark                            | Not stated                             | Not stated                             | A03962                     |
| Kondurangoglycoside C-1                  | Steroid       | Trunk bark                            | Not stated                             | Not stated                             | A03962                     |
| Leucanthemitol, L:                       | Carbohydrate  | Leaf                                  | Not stated                             | Not stated                             | A02619                     |
| Marsdenia Cundurango Antitumor Substance | Unknown       | Bark                                  | Not stated                             | Not stated                             | T04212                     |
| Marsdenia Cundurango Glycoside E-01      | Steroid       | Bark                                  | Not stated                             | 00.00197%                              | T05891                     |
| Marsdenin                                | Steroid       | Trunk bark                            | Not stated                             | Not stated                             | A03963                     |

| Compound                    | Chemical Type | Plant Part   | Plant Origin             | Quantity                 | Ref #            |
|-----------------------------|---------------|--------------|--------------------------|--------------------------|------------------|
| Pinitol, D:                 | Carbohydrate  | Leaf         | Not stated               | Not stated               | A02619           |
| Quercitrin                  | Flavonol      | Bark         | Not stated               | Not stated               | T06297           |
| Rutin                       | Flavonol      | Bark         | Not stated               | Not stated               | T06297           |
| Saponarin                   | Flavone       | Bark         | Not stated               | Not stated               | T06297           |
| Sarcostin                   | Steroid       | Trunk bark   | Not stated               | Not stated               | A03963           |
| Sequoyitol                  | Carbohydrate  | Leaf         | Not stated               | Not stated               | A02619           |
| Sitosterol, beta: cinnamate | Steroid       | Trunk bark   | Not stated               | Not stated               | A03954           |
| Thevetose, D                | Glycoside     | Bark         | Not stated               | Not stated               | ZZ1047           |
| Trifolin                    | Flavonol      | Bark         | Not stated               | Not stated               | T06297           |
| Umbelliferone               | Coumarin      | Bark         | Not stated               | Not stated               | T04060           |
| Vanillin                    | Benzenoid     | Bark<br>Bark | Not stated<br>Not stated | Not stated<br>Not stated | T04060<br>T06297 |
| Viburnitol, L:              | Carbohydrate  | Leaf         | Not stated               | Not stated               | A02619           |

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