

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Uncaria tomentosa*

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Refernce Citation |
|------------------|--|------------|---------|----------|--------|-------------------|
| 38 | (-)-EPICATECHIN | Bark | | 25.0 | 1.0 | -- |
| 0 | 16-ALPHA-HYDROXY-3-BETA-METHOXY-URSA-12,19(29)-DIEN-27,28-DIOIC-ACID | Root Bark | | 8.0 | | -- |
| 0 | 27-O-BETA-D-GLUCOPYRANOSIDE-QUINOVIC-ACID | Root Bark | | 9.0 | | -- |
| 0 | 3-BETA-6-BETA-19-ALPHA-TRIHYDROXY-23-OXO-URS-12-EN-28-OIC ACID | Bark | | 57.4 | | -- |
| 0 | 3-BETA-6-BETA-19-ALPHA-TRIHYDROXY-URS-12-ENE-23-28-DIOIC ACID | Root Bark | | 8.0 | | -- |
| 0 | 3-BETA-HYDROXY-3-OXO-URS-12-EN-27,28-DIOIC-ACID | Root Bark | | | | -- |
| 0 | 3BETA,6BETA,19ALPHA-TRIHYDROXY-URS-12-EN-28-OIC-ACID | Bark | | 65.0 | | -- |
| 0 | 3BETA,6BETA,19ALPHA-TRIHYDROXY-URS-12-EN-28-OIC-ACID | Plant | | | | -- |
| 0 | 3BETA,6BETA,19ALPHA-TRIHYDROXY-URS-12-EN-28-OIC-ACID | Root Bark | 197.0 | 250.0 | | -- |
| 0 | 5ALPHA-CARBOXYSTRICTOSIDINE | Root Bark | | 255.0 | | -- |
| 0 | 5ALPHA-CARBOXYSTRICTOSIDINE | Plant | | | | -- |
| 0 | 6-BETA-19-ALPHA-DIHYDROXY-3-OXO-URS-12-EN-28-OIC-ACID | Root Bark | | 0.002 | | -- |
| 3 | AKUAMMIGINE | Root | | 300.0 | | -- |
| 3 | AKUAMMIGINE | Leaf | | 9200.0 | | -- |
| 1 | ALLOISOPTEROPODINE | Root | | | | -- |
| 1 | ALLOPTEROPODINE | Root | | | | -- |
| 1 | ANGUSTINE | Leaf | | | | -- |
| 47 | BETA-SITOSTEROL | Bark | | | | -- |
| 2 | CAMPESTEROL | Bark | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|------------------------------|------------|---------|----------|--------|---|
| 77 | CHLOROGENIC-ACID | Bark | | | | Van Ginkel, A. 1996. Identification of the Alkaloids and Flavonoids from <i>Uncaria tomentosa</i> Bark by TLC in Quality Control. <i>Phytotherapy Research</i> , 10: S18-S19. |
| 0 | CINCHONAIN-1-A | Bark | | 25.0 | | -- |
| 0 | CINCHONAIN-1-B | Bark | | 65.0 | | -- |
| 1 | CORYNOXEINE | Root | | 510.0 | | -- |
| 1 | CORYNOXEINE | Leaf | | 190.0 | | -- |
| 7 | DIHYDROCORYNANTHEINE | Leaf | | 800.0 | | -- |
| 7 | DIHYDROCORYNANTHEINE | Root | | 710.0 | | -- |
| 0 | DIHYDROCORYNANTHEINE-N-OXIDE | Leaf | | | | -- |
| 3 | HIRSUTEINE | Leaf | | 140.0 | | -- |
| 3 | HIRSUTEINE | Root | | 190.0 | | -- |
| 8 | HIRSUTINE | Leaf | | 330.0 | | -- |
| 8 | HIRSUTINE | Root | | 800.0 | | -- |
| 0 | HIRSUTINE-N-OXIDE | Leaf | | | | -- |
| 0 | ISOAJMALICINE | Leaf | | 310.0 | | -- |
| 1 | ISOCORYNOXEINE | Root | | 950.0 | | -- |
| 1 | ISOCORYNOXEINE | Leaf | | 600.0 | | -- |
| 3 | ISOMITRAPHYLLINE | Root Bark | | | | -- |
| 3 | ISOMITRAPHYLLINE | Stem Bark | | 20.0 | | -- |
| 3 | ISOMITRAPHYLLINE | Leaf | | 25000.0 | | -- |
| 3 | ISOMITRAPHYLLINE | Root | | 3300.0 | | -- |
| 3 | ISOPTEROPODINE | Root Bark | | | | -- |
| 3 | ISOPTEROPODINE | Leaf | | 3100.0 | | -- |
| 3 | ISOPTEROPODINE | Stem Bark | 60.0 | 630.0 | | -- |
| 3 | ISOPTEROPODINE | Root | 19.3 | 2800.0 | | -- |
| 15 | ISORHYNCHOPHYLLINE | Root Bark | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|---|------------|---------|----------|--------|--------------------|
| 15 | ISORHYNCHOPHYLLINE | Root | 45.5 | 21600.0 | | -- |
| 15 | ISORHYNCHOPHYLLINE | Leaf | | 22200.0 | | -- |
| 0 | ISORHYNCHOPHYLLINE-N-OXIDE | Leaf | | | | -- |
| 0 | ISOROTUNDIFOLINE | Stem | | | | -- |
| 12 | MITRAPHYLLINE | Root | | 5000.0 | | -- |
| 12 | MITRAPHYLLINE | Leaf | | 10900.0 | | -- |
| 12 | MITRAPHYLLINE | Bark | | | | -- |
| 12 | MITRAPHYLLINE | Stem Bark | 30.0 | 500.0 | | -- |
| 12 | MITRAPHYLLINE | Root Bark | | | | -- |
| 64 | OLEANOLIC-ACID | Plant | | | | -- |
| 64 | OLEANOLIC-ACID | Root Bark | 100.0 | 150.0 | 1.0 | -- |
| 3 | PTEROPODINE | Bark | | | | -- |
| 3 | PTEROPODINE | Leaf | | 4800.0 | | -- |
| 3 | PTEROPODINE | Stem Bark | 50.0 | 3000.0 | | -- |
| 3 | PTEROPODINE | Root Bark | | | | -- |
| 3 | PTEROPODINE | Root | | 5600.0 | | -- |
| 0 | QUINOVIC ACID-(28-1)-BETA-D-GLUCOSYL-BETA-D-GLUCOSYL ESTER | Bark | | | | -- |
| 0 | QUINOVIC ACID-3-BETA-O-(BETA-D-FUCOSYL)-(28-1)-BETA-D-GLUCOSYL ESTER | Bark | | | | -- |
| 0 | QUINOVIC ACID-3-BETA-O-(BETA-D-GLUCETA-D-GLUCOSYLESTEROSYL-(1-3)-BETA-D-FUCOSYL)-(28-1)-BETA-D-GLUCOSYL ESTER | Bark | | | | -- |
| 0 | QUINOVIC ACID-3-BETA-O-(BETA-D-GLUCOPYRANOSYL-(1-3)-BETA-D-FUCOPYRANOSIDE) | Bark | | 46.0 | | -- |

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|------------------|---|------------|---------|----------|--------|--------------------|
| 0 | QUINOVIC ACID-3-BETA-O-(BETA-D-GLUCOPYRANOSYL-(1-3)-BETA-D-FUCOPYRANOSY)-(28-1)-BETA-D-GLUCOPYRANOSYL ESTER | Bark | | 50.0 | | -- |
| 0 | QUINOVIC ACID-3-BETA-O-(BETA-D-GLUCOSYL-(1-3)-BETA-D-FUCOSIDE) | Bark | | | | -- |
| 0 | QUINOVIC ACID-3-BETA-O-(BETA-D-GLUCOSYL-(1-3)-BETA-D-FUCOSYL)-(27-1)-B | Bark | | | | -- |
| 0 | QUINOVIC ACID-3-BETA-O-(BETA-D-QUINOVOSYL)-(28-1)-BETA-D-GLUCOSYL ESTER | Bark | | | | -- |
| 0 | QUINOVIC ACID-3-BETA-O-BETA-D-FUCOSYL-27-BETA-D-GLUCOSYL ESTER | Root Bark | | 160.0 | | -- |
| 0 | QUINOVIC ACID-3-BETA-O-BETA-D-QUINOVOSYL-27-BETA-D-GLUCOSYL ESTER | Root Bark | | 150.0 | | -- |
| 0 | QUINOVIC-ACID-3-BETA-O-ALPHA-L-RHAMNOPYRANOSIDE | Root Bark | | 17.0 | | -- |
| 0 | QUINOVIC-ACID-3-BETA-O-ALPHA-L-RHAMNOPYRANOSYL-(1,3)-GLUCOPYRANOSYL | Root Bark | | 18.0 | | -- |
| 0 | QUINOVIC-ACID-3-BETA-O-BETA-D-QUINOVOPYRANOSYL-(1,3)-GALACTOPYRANOSYL | Root Bark | | 7.0 | | -- |
| 0 | QUINOVIC-ACID-3-BETA-O-BETA-D-QUINOVOPYRANOSYL-(1,3)-GLUCOPYRANOSYL | Root Bark | | 7.0 | | -- |
| 0 | QUINOVIC-ACID-3BETA-O-(BETA-D-GLUCOPYRANOSYL-(1->3)BETA-D-FUCOPYRANOSYL-(27->1)BETA-D-GLUCOPYRANOSYL-ESTER | Bark | | 20.0 | | -- |
| 0 | QUINOVIC-ACID-3BETA-O-BETA-D-FUCOPYRANOSIDE | Bark | | | | -- |

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|------------------|--|------------|---------|----------|--------|--|
| 0 | QUINOVIC-ACID-3BETA-O-BETA-D-FUCOPYRANOSYL-(27->1)BETA-D-GLUCOPYRANOSYLESTER | Bark | | | | -- |
| 0 | QUINOVIC-ACID-3BETA-O-BETA-D-QUINOVOPYRANOSIDE | Bark | | | | -- |
| 23 | RHYNCHOPHYLLINE | Root | 23.3 | 10300.0 | | -- |
| 23 | RHYNCHOPHYLLINE | Leaf | | 7700.0 | | -- |
| 23 | RHYNCHOPHYLLINE | Root Bark | | | | -- |
| 0 | RHYNCHOPHYLLINE-N-OXIDE | Leaf | | | | -- |
| 0 | ROTUNDIFOLINE | Stem | | | | -- |
| 87 | RUTIN | Bark | | | | Van Ginkel, A. 1996. Identification of the Alkaloids and Flavonoids from Uncaria tomentosa Bark by TLC in Quality Control. Phytotherapy Research, 10: S18-S19. |
| 1 | SPECIOPHYLLINE | Bark | | | | -- |
| 1 | SPECIOPHYLLINE | Root Bark | | | | -- |
| 1 | SPECIOPHYLLINE | Stem Bark | 80.0 | 1600.0 | | -- |
| 1 | SPECIOPHYLLINE | Root | | 6600.0 | | -- |
| 1 | SPECIOPHYLLINE | Leaf | | 10800.0 | | -- |
| 12 | STIGMASTEROL | Bark | | | | -- |
| 0 | UNCARINE | Bark | | | | -- |
| 1 | UNCARINE-F | Root Bark | | | | -- |
| 1 | UNCARINE-F | Stem Bark | 30.0 | 630.0 | | -- |
| 1 | UNCARINE-F | Leaf | | 2800.0 | | -- |
| 1 | UNCARINE-F | Root | | 3100.0 | | -- |
| 1 | UNCARINE-F | Plant | | | | Fernando Cabieses, 1994. |
| 89 | URSOLIC-ACID | Plant | | | | -- |