SUPPLEMENTARY MATERIAL

Trichosides A and B, New Withanolide glucosides from *Tricholepis eburnea*

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Trichosides A (1) and B (2), new withanolide glucosides, have been isolated from n-butanol fraction of the 75% methanolic extract of aerial parts of *Tricholepis eburnea*. Their structures were elucidated through spectroscopic analysis including ESI-MS, 2D NMR and acid hydrolysis.

**Key words:** Asteraceae, *Tricholepis eburnea*, withanolide glucosides, trichoside A, trichoside B
$^1$H NMR of Trichoside A
$^{13}C$ NMR of Trichoside A
$^1$H NMR of Trichoside B
$^{13}$C NMR of Trichoside B
Table S1. $^1$H (600 MHz) and $^{13}$C (125 MHz) NMR in CD$_3$OD spectral data of compounds 1 and 2.

| C   | Compound 1 | | | | Compound 2 | | | |
|-----|------------|----------------------------------|---|---|-----------------------------------|---|---|
|     | $\delta$ C | Multi | $\delta$H ($J$ in Hz) | $\delta$ C | Multi | $\delta$H ($J$ in Hz) |
| 1   | 214.5 C     | ---   | ---                     | 217.8 C     | ---   | ---                     |
| 2   | 46.8 CH$_2$ | 2.73 (1H, m) | 40.0 CH$_2$ | 2.76 (1H, m), | 2.09 (1H, m) | 2.06 (1H, d, $J = 17.3$) |
| 3   | 76.9 CH     | 4.00 (1H, m) | 72.7 CH     | 3.59 (1H, m) | --- | ---                     |
| 4   | 38.8 CH$_2$ | 2.69 (1H, dd, $J = 6.31, 13.64$) | 2.48 (1H, d, $J = 13.64$) | --- | --- | --- |
| 5   | 136.4 C     | ---   | ---                     | 36.1 C     | ---   | ---                     |
| 6   | 127.0 CH    | 5.68 (1H, d, $J = 5.2$ Hz) | 18.1 CH$_2$ | 1.62 (2H, m) | 30.0 CH$_2$ | 1.30 (1H, m) | 1.24 (1H, m) |
| 7   | 26.4 CH$_2$ | 2.09 (2H, m) | --- | --- | --- | --- |
| 8   | 33.1 CH     | 2.26 (1H, m) | 32.4 C     | --- | --- | --- |
| 9   | 37.1 CH     | 2.14 (1H, dd, $J = 11.9, 6.3$) | 40.8 CH     | 2.75 (1H, m) | --- | --- |
| 10  | 54.5 C      | ---   | ---                     | 53.0 C     | ---   | ---                     |
| 11  | 23.1 CH$_2$ | 2.08 (1H, m), | 21.6 CH$_2$ | 2.08 (1H, m) | 1.62 (1H, m) | 1.93 (1H, m) |
| 12  | 33.1 CH$_2$ | 2.34 (1H, ddd, $J = 11.8, 5.7, 5.7$); 1.26 (1H, m) | 32.9 CH$_2$ | 2.32 (1H, m) | --- | --- |
| 13  | 55.0 C      | ---   | ---                     | 48.6 C     | ---   | ---                     |
| 14  | 84.4 C      | ---   | ---                     | 84.5 C     | ---   | ---                     |
| 15  | 47.9 CH$_2$ | 2.91 (1H, dd, $J = 16.0, 6.7$) | 32.8 CH$_2$ | 1.81 (1H, m) | 1.59 (1H, br d, $J = 16.0$) | --- | --- |
| 16  | 76.5 CH     | 3.82 (1H, dd, $J = 11.7, 6.7$) | 21.9 CH$_2$ | 1.83 (1H, m) | 1.32 (1H, m) | --- | --- |
| 17  | 89.4 C      | ---   | ---                     | 50.2 CH    | 3.59 (1H, m) | --- | --- |
| 18  | 20.6 CH$_3$ | 1.33 (3H, s) | 17.8 CH$_3$ | 1.38 (3H, s) | --- | --- |
| 19  | 18.5 CH$_3$ | 1.31 (3H, s) | 15.4 CH$_3$ | 1.55 (3H, s) | --- | --- |
| 20  | 79.7 C      | ---   | ---                     | 75.2 C     | ---   | ---                     |
| 21  | 19.7 CH$_3$ | 1.36 (3H, s) | 21.5 CH$_3$ | 1.44 (3H, m) | --- | --- |
| 22  | 82.9 CH     | 4.84 (1H, br s) | 82.3 CH     | 4.42 (1H, m) | --- | --- |
| 23  | 35.7 CH$_2$ | 2.63 (1H, br s) | 34.4 CH$_2$ | 2.74 (1H, m) | 2.51 (1H, br s) | 2.37 (1H, m) | --- | --- |
| 24  | 153.4 C     | ---   | ---                     | 156.9 C    | ---   | ---                     |
| 25  | 122.0 C     | ---   | ---                     | 123.7 C    | ---   | ---                     |
| 26  | 169.1 C     | ---   | ---                     | 165.8 C    | ---   | ---                     |
| 27  | 12.3 CH$_3$ | 1.84 (3H, s) | 63.3 CH$_2$ | 5.09 (1H, d, $J = 10.5$) | --- | --- |
| 28  | 20.6 CH$_3$ | 1.95 (3H, s) | 20.4 CH$_3$ | 1.83 (3H, s) | --- | --- |
| 1'  | 103.1 CH    | 4.36 (1H, d, $J = 7.8$ Hz) | 104.9 CH    | 4.97 (1H, d, $J = 7.8$) | --- | --- |
| 2'  | 75.0 CH     | 3.13 (1H, dd, $J = 7.8, 8.6$) | 75.2 CH      | 4.01 (1H, m) | --- | --- |
| 3'  | 77.9 CH     | 3.33 (1H, d, $J = 5.20$) | 78.6 CH     | 4.24 (1H, m) | --- | --- |
| 4'  | 71.6 CH     | 3.25 (1H, m) | 71.7 CH     | 4.37 (1H, m) | --- | --- |
| 5'  | 78.0 CH     | 3.25 (1H, d, $J = 4.6$) | 78.5 CH     | 3.95 (1H, m) | --- | --- |
| 6'  | 62.7 CH$_2$ | 3.83 (1H, d, $J = 11.6$) | 62.8 CH$_2$ | 4.53 (1H, dd, $J = 10.8, 4.6$) | 3.63 (1H, dd, $J = 11.6, 4.6$) | 4.37 (1H, d, $J = 10.8$ Hz) | --- | --- |