**Supplementary Materials**



**Figure S1.** Mass spectra (TOFMS ES+) of compound C-1.



**Figure S2.** 1H NMR spectra of compound C-1.



**Figure S3.** 13CNMR spectra of compound C-1.



**Figure S4.** Molecular structure of compound C-1: Quercetin glycoside/Quercetin 3-O-*β*-D-glucopyranoside.

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**Figure S5.** FTIR spectra of compound C-2 (rutin).

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**Figure S6.** TOF MS ES + 2.19 e3 of rutin.



**Figure S7.** 1H NMR spectra of rutin.

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**Figure S8.** 13C NMR spectra of rutin.



**Figure S9.** Molecular structure of rutin (C-2).

**Table S1.** Results of fluorescence analysis.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S. No.** | **Treatment** | **Day light** | **UV light****254 nm** | **UV****366 nm** |
| 1. | Powder as such | Greyish brown | Buff | Woody brown |
| 2. | Powder treated with dist. H2O | Greyish brown | Buff greyish | Light black |
| 3 | Powder treated with 10% aq. NaOH | Yellow | Light green | Light yellow |
| 4. | Powder treated with NH3 | Buff white | Light green | Light green |
| 5. | Powder treated with conc. H2SO4 | Golden brown | Dark green | Light green |
| 6. | Powder treated with conc. H2SO4 + H2O | Dark brown | Dark brown | Green |
| 7. | Powder treated with conc. HCl | Golden yellow | Light green | Brown green |
| 8. | Powder treated with conc. HCl + H2O | Very light yellow | Light green | Light green |
| 9. | Powder treated with conc. HNO3 | Yellow | Light green | Light green |
| 10. | Powder treated with conc. HNO3 + H2O | Light yellow | Light green | Light green |
| 11. | Powder treated with 5% Iodine | Yellow | Light green | Light yellow |
| 12. | Powder treated with 5% Ferric chloride solution | Greenish black | Light green | Light green |
| 13. | Powder treated with Picric acid | Yellow | Light yellow | Greyish |
| 14. | Powder treated with Glacial acetic acid | Light greyish | Greyish | Greyish |
| 15. | Powder treated with petroleum ether | Colorless | colorless | Colorless |
| 16. | Powder treated with chloroform | Greyish | Greyish | Greyish |
| 17. | Powder treated with ethyl acetate | Greyish | Greyish | Greyish |
| 18. | Powder treated with methanol | Greyish | Greyish | Greyish |

**Table S2.** Phytochemical analysis of successive *Sambucus wightiana* extracts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Extract Constituents** | **PE** | **Chloroform** | **Ethyl acetate** | **Methanol** | **Aqueous** |
| Carbohydrates | - | - | - | + | + |
| Proteins & amino acids | - | - | - | + | + |
| Lipids/fats and oils | + | + | + | - | - |
| Sterols and steroids | + | + | + | - | - |
| Glycosides | - | - | + | + | + |
| Coumarins | + | + | + | + | - |
| Saponins | - | - | - | - | + |
| Flavonoids | - | - | + | + | + |
| Alkaloids | - | + | - | - | - |
| Phenolics/ Tannins | - | - | + | + | + |
| Acidic comp. | - | - | + | + | - |
| Terpenes and terpenoids | + | + | + | + | - |

(+) Positive test, (-) Negative test. PE = Petroleum ether.

**Table S3.** Phytochemical screening of total methanol extract.

|  |  |
| --- | --- |
| **Phytoconstituents** | **Total methanol extract** |
| Carbohydrates | + |
| Proteins & amino acids | + |
| Lipids/fats and oils | + |
| Sterols and steroids | + |
| Glycosides | + |
| Coumarins | + |
| Saponins | + |
| Flavonoids | + |
| Alkaloids | + |
| Phenolics/ Tannins | + |
| Terpenes and terpenoids | + |

**Table S4.** TLC of extracts of *Sambucus wightiana* with Rf values of various phytoconstituents.

|  |
| --- |
| **Cold extracts of *Sambucus wightiana*** |
| **Compound** | **Rf value** | **Result** |
| **Pet. ether** | **Chloroform** | **Ethyl acetate** | **Methanol** | **Aqueous** |
| Terpenes | 0.39 | + | + | - | + | - |
| Flavonoids | 0.80 | - | - | + | + | + |
| Alkaloids | 0.52 | - | + | - | + | + |
| Steroids | 0.47 | + | + | - | + | + |
| Saponins | 0.55 | - | - | - | - | + |
| Successive extracts of *Sambucus wightiana* |
| Terpenes | 0.39 | + | + | - | + | - |
| Flavonoids | 0.80 | - | - | + | + | + |
| Alkaloids | 0.52 | - | - | - | - | - |
| Steroids | 0.47 | + | + | - | - | - |
| Saponins | 0.55 | - | - | - | + | + |

\*Pet. Ether = Petroleum ether, (-) Absence), (+) Presence), Rf = Retention factor

**Table S5.** Colony forming units on nutrient agar medium.

|  |  |  |
| --- | --- | --- |
| **Dilution of stock** | **No. Of colonies** | **Colony characteristics** |
| Drug | Control | Shape | Colour | Observation aid |
| 1:1 | Not Countable | Nil | Round | White | Naked eye |
| 1:10 | Not Countable | Nil | Round | White | Naked eye |
| 1:100 | 07 | Nil | Round | White | Naked eye |