

## DAFTAR ISI

|                                                              |      |
|--------------------------------------------------------------|------|
| LEMBAR PERSETUJUAN .....                                     | ii   |
| LEMBAR PENGESAHAN .....                                      | iii  |
| LEMBAR PERNYATAAN .....                                      | iv   |
| KATA PENGANTAR.....                                          | v    |
| ABSTRAK .....                                                | vi   |
| <i>ABSTRACT</i> .....                                        | vii  |
| DAFTAR ISI.....                                              | x    |
| DAFTAR GAMBAR.....                                           | xi   |
| DAFTAR TABEL .....                                           | xii  |
| DAFTAR LAMPIRAN .....                                        | xiii |
| BAB I PENDAHULUAN.....                                       | 1    |
| 1.1 Latar Belakang .....                                     | 1    |
| 1.2 Rumusan Masalah.....                                     | 3    |
| 1.3 Tujuan Penelitian .....                                  | 3    |
| 1.4 Manfaat Penelitian .....                                 | 3    |
| BAB II TINJAUAN PUSTAKA .....                                | 4    |
| 2.1 Tanaman Tapak Liman ( <i>Elephantopus scaber</i> ) ..... | 4    |
| 2.1.1 Sistematika Tanaman Tapak Liman.....                   | 4    |
| 2.1.2 Sinonim.....                                           | 5    |
| 2.1.3 Morfologi .....                                        | 5    |
| 2.1.4 Kandungan kimia .....                                  | 5    |
| 2.2 Tanaman Sambung Nyawa ( <i>Gynura procumbens</i> ).....  | 6    |
| 2.2.1 Sistematika Tanaman Sambung Nyawa.....                 | 6    |
| 2.2.2 Sinonim.....                                           | 7    |
| 2.2.3 Morfologi .....                                        | 7    |
| 2.2.4 Kandungan kimia .....                                  | 7    |
| 2.3 Ekstrak .....                                            | 8    |

|                                                                    |           |
|--------------------------------------------------------------------|-----------|
| 2.4 Flavonoid .....                                                | 9         |
| 2.5 Spektrofotometri <i>UV-Visibel</i> .....                       | 11        |
| <b>BAB III METODE PENELITIAN .....</b>                             | <b>12</b> |
| 3.1 Jenis dan Rancangan Penelitian .....                           | 12        |
| 3.2 Populasi Sampel Tanaman Uji .....                              | 12        |
| 3.3 Alat dan Bahan Penelitian .....                                | 12        |
| 3.2.1 Bahan penelitian .....                                       | 12        |
| 3.2.2 Alat penelitian .....                                        | 12        |
| 3.4 Tempat dan Waktu Penelitian .....                              | 13        |
| 3.5 Variabel Penelitian .....                                      | 13        |
| 3.5.1 Variabel Independen .....                                    | 13        |
| 3.5.2 Variabel Dependen .....                                      | 13        |
| 3.6 Prosedur Percobaan .....                                       | 13        |
| 3.6.1 Sampel Tanaman Uji .....                                     | 13        |
| 3.6.2 Determinasi Tanaman .....                                    | 14        |
| 3.6.3 Proses Ekstraksi .....                                       | 14        |
| 3.6.4 Pemeriksaan Ekstrak .....                                    | 17        |
| 3.6.5 Pembuatan Reagen untuk Penetapan Kadar Flavonoid Total ..... | 17        |
| 3.6.6 Penetapan Larutan Baku Kuersetin .....                       | 18        |
| 3.6.7 Penetapan Kadar Flavonoid .....                              | 19        |
| 3.7 Analisis Data .....                                            | 19        |
| 3.8 Diagram Alir Penelitian .....                                  | 20        |
| <b>BAB IV HASIL DAN PEMBAHASAN .....</b>                           | <b>21</b> |
| 4.1 Hasil Determinasi Tanaman .....                                | 21        |
| 4.2 Rendeman .....                                                 | 22        |
| 4.3 Hasil Pengujian Pemeriksaan Ekstrak .....                      | 22        |
| 4.4 Skrining Fitokimia .....                                       | 23        |
| 4.5 Penentuan Kadar Flavonoid Total .....                          | 24        |
| 4.5.1 Penetapan Panjang Gelombang Maksimum .....                   | 24        |
| 4.5.2 Penentuan <i>Operating Time</i> .....                        | 25        |
| 4.5.3 Penentuan Kurva Baku .....                                   | 25        |
| 4.5.4 Penentuan Kadar Flavonoid Total .....                        | 29        |

|                                        |           |
|----------------------------------------|-----------|
| <b>BAB V KESIMPULAN DAN SARAN.....</b> | <b>30</b> |
| 5.1 Kesimpulan .....                   | 30        |
| 5.2 Saran .....                        | 30        |
| <b>DAFTAR PUSTAKA.....</b>             | <b>33</b> |
| <b>LAMPIRAN.....</b>                   | <b>34</b> |
| <b>RIWAYAT PENULIS .....</b>           | <b>44</b> |



## DAFTAR GAMBAR

|                                                                              |    |
|------------------------------------------------------------------------------|----|
| <b>Gambar 2.1</b> Tanaman Tapak Liman ( <i>Elephantopus scaver</i> ) .....   | 4  |
| <b>Gambar 2.2</b> Tanaman Sambung Nyawa ( <i>Gynura orocumbens</i> ) .....   | 6  |
| <b>Gambar 2.4</b> Struktur Kimia Flavonoid .....                             | 9  |
| <b>Gambar 3.8</b> Diagram Alir Penelitian .....                              | 20 |
| <b>Gambar 4.1</b> Kurva Baku Kuersetin .....                                 | 25 |
| <b>Gambar 4.2</b> Hasil Uji Statistik <i>Independent Sample T-Test</i> ..... | 28 |



## DAFTAR TABEL

|                                                                                     |    |
|-------------------------------------------------------------------------------------|----|
| <b>Tabel 4.1</b> Hasil Determinasi Tanaman .....                                    | 21 |
| <b>Tabel 4.2</b> Hasil Rendemen .....                                               | 22 |
| <b>Tabel 4.3</b> Hasil Pengujian Ekstrak .....                                      | 23 |
| <b>Tabel 4.4</b> Data Skrining Fitokimia Tanaman Tapak liman dan Sambung nyawa..... | 24 |
| <b>Tabel 4.5</b> Hasil Analisis Kadar Flavonoid Total.....                          | 27 |



## DAFTAR LAMPIRAN

|                                                                      |    |
|----------------------------------------------------------------------|----|
| <b>Lampiran 1.</b> Hasil Determinasi Tanaman .....                   | 36 |
| <b>Lampiran 2.</b> Hasil Tanaman Tapak liman dan Sambung nyawa ..... | 37 |
| <b>Lampiran 3.</b> Hasil Ekstrak Simplisia .....                     | 38 |
| <b>Lampiran 4.</b> Perhitungan Rendemen Ekstrak.....                 | 39 |
| <b>Lampiran 5.</b> Hasil Skrining Fitokimia Ekstrak .....            | 41 |
| <b>Lampiran 6.</b> Hasil Penentuan Panjang Gelombang Maksimum .....  | 42 |
| <b>Lampiran 7.</b> Analisis Data Statistik .....                     | 43 |

