**Lampiran 6.** Perhitungan Hasil Karakterisasi Simplisia Kulit Jagung

1. Perhitungan penetapan kadar air simplisia limbah kulit jagung

 Kadar air = Volume air (ml) x 100%

 Berat sampel (gr)

|  |  |  |  |
| --- | --- | --- | --- |
| Berat sampel | Berat cawan kosong | Berat cawan (+) sampel | Berat cawan (+) sempel setelah pengeringan |
| 2 gr | 12,5976 gr | 14,5976 gr | 14,5868 gr |
| 2gr | 12,5976 gr | 14,5976 gr | 14,5869 gr |
| 2gr | 12,5974 gr | 14,5974 gr | 14,5868 gr |
| Jlm Rata2x | : 3 = 12,5975 gr | : 3 = 14,7809 gr | : 3 = 14,5868 gr |

Kadar air % = 14,7809 – 14,5868 x 100 %

 2 gr

 = 8,89 %

1. Penetapan kadar sari yang larut dalam air

|  |  |  |
| --- | --- | --- |
| Berat sampel | Berat awal cawan dan sampel | Berat akhir cawan dan sampel |
| 5 gr | 70,4267 gr | 70,7222 gr |
| 5 gr | 70,4266 gr | 70,7222 gr |
| 5 gr | 70,4266 gr | 70,7223 gr |
| Jlh rata2x | : 3 = 70,4266gr | : 3 = 70,7222gr |

Massa zat terlarut = (berat akhir )- berat awal

 = 70,7222gr - 70,4266 gr

 = 0,295 gr x 100%

 5 gram

 = 5,912%

1. Penetapan kadar sari yang larut dalam etanol

|  |  |  |
| --- | --- | --- |
| Berat sampel | Berat awal cawan dan sampel | Berat akhir cawan dan sampel |
| 5 gr | 35,8208 gr | 36,0275 gr |
| 5 gr | 35,8207 gr | 36,0274 gr |
| 5 gr | 35,8208 gr | 36,0274 gr |
| Jlh rata2x | : 3 = 35,8208 gr | : 3 = 36,0274 gr |

Massa zat terlarut = (Berat akhir)- Berat awal

 = 36,0274 gr – 35,8208 gr

 = 0,2039 gr x 100%

 5 gr

 = 4,078%

1. Penetapan Kadar Abu Total

|  |  |  |
| --- | --- | --- |
| Berat sampel | Berat cawan (+) sampel  | Berat cawan(+) sampe setelah di tanur |
| 2 gr | 14,8365 gr | 13,6184 gr |
| 2gr | 14,8365 gr | 13,6188 gr |
| 2gr | 14,8368 gr | 13,6184 gr |
| Jlh rata2x | : 3 = 14,8365 gr | : 3 = 13,6184 gr  |

Massa abu total = B-A

 = 13,6184 gr – 12,6088 gr = 1,0096 gr x 100% = 9,25%

 2 gr

1. Penetapan Kadar Abu Yang Tidak Larut Air

Berat sampel = 5 gr

Berat kertas saring = 0,4422gr + 0,4423gr + 0,4422gr /3 = 0,4422gr

Berat kertas saring + residu = 1,2364gr+1,2364gr+1,2365gr /3 = 1,2364gr

Residu = (Berat kertas saring + residu)-(Berat kertas saring)

 = 1,2364 - 0,4422 / 5 gr x 100%

 = 0,7942 %

**Lampiran 7.** Hasil skrining fitokimia ekstrak etanol kulit jagung



Uji alkaloid uji flavonoid



Tanin

 Uji saponin uji tanin

**Lampiran 8.** Gambar Hasil Identifikasi Bakteri

 **Gambar** Bakteri Gram Positif

****

 **Gambar** Bakteri Gram Negatif

**Lampiran 9.** Hasil Uji Aktivitas Antibakteri Ekstrak Etanol Kulit Jagung Terhadap *Escherichia coli* dan *Staphylococcus aureus*

Diameter hambat Ekstrak Etanol Kulit Jagung Terhadap *Escherichia coli*



Diameter hambat Ekstrak Etanol Kulit Jagung Terhadap *Staphylococcus aureus*