**Lampiran 6.** Perhitungan Penetapan Kadar Air (Tidak lebih dari 10%)

Rumus : Kadar air = $\frac{V2-V1}{Berat sampel}$ x 100 %

* Sampel 1

Berat sampel = 5,0003 gr

V1 = 1,5 ml

V2 = 2,0 ml

 = $\frac{2,0 ml-1,5 ml}{5,0003 gr} $ x 100 %

 = $\frac{0,5 ml}{5,0003 gr}$ x 100 %

 = 9,9994 %

* Sampel 2

Berat sampel = 5,0002 gr

V1 = 1,8 ml

V2 = 2,2 ml

 = $\frac{2,2 ml-1,8ml}{5,0002 gr}$ x 100 %

 = $\frac{0,4 ml}{5,0002 gr}$ x 100 %

 = 7,9996 %

* Sampel 3

Berat sampel = 5,0003 gr

V1 = 1,9 ml

V2 = 2,3 ml

 = $\frac{2,3 ml-1,9 ml}{5,0003 gr} $x 100 %

 = $\frac{0,4 ml}{5,0003 gr}$ x 100 %

 = 7,9995 %

Rata-rata = $\frac{9,9994 \%+7,9996 \%+7,9995 \%}{3}$ = 8,6661 %

Kesimpulan : Memenuhi persyaratan

**Lampiran 7.** Perhitungan Penetapan Kadar Sari Larut Dalam Air

(Tidak kurang dari 5 %)

Rumus : $\frac{Berat cawan isi-Berat cawan kosong x 5}{Berat sampel}$ x 100 %

* Sampel 1

Berat sampel = 5,0002 gr

Berat cawan isi = 65,9871 gr

Berat cawan kosong = 65,8002 gr

 = $\frac{65,9871 gr-65,8002 gr x 5}{5,0002 gr}$ x 100 %

 = $\frac{o,1869 gr x 5}{5,0002 gr}$ x 100 %

 = $\frac{0,9345 gr}{5,0002 gr}$ x 100 %

= 18,6892 %

* Sampel 2

Berat sampel = 5,0003 gr

Berat cawan isi = 58,4618 gr

Berat cawan kosong = 58,2634 gr

 = $\frac{58,4618 gr-58,2634 gr x 5}{5,0003 gr}$ x 100 %

= $\frac{0,1984 gr x 5}{5,0003 gr}$ x 100 %

= $\frac{0,9920 gr}{5,0003 gr}$ x 100 %

= 19,8388 %

* Sampel 3

Berat sampel = 5,0001 gr

Berat cawan isi = 32,3953 gr

Berat cawan kosong = 32,1941 gr

 = $\frac{32,3953 gr-32,1941 gr x 5}{5,0001 gr}$ x 100 %

 = $\frac{0,2012 gr x 5}{5,0001 gr}$ x 100 %

**Lampiran 7.** (lanjutan)

= $\frac{1,0060 gr}{5,0001 gr}$ x 100 %

= 20,1195 %

Rata-rata = $\frac{18,6892 \%+19,8388 \%+20,1195 \% }{3}$ = 19,5491 %

Kesimpulan : Memenuhi persyaratan

**Lampiran 8.** Perhitungan Penetapan Kadar Sari Larut Dalam Etanol

(Tidak kurang dari 4 %)

Rumus : $\frac{Berat cawan isi-Berat cawan kosong x 5}{Berat sampel}$ x 100 %

* Sampel 1

Berat sampel = 5,0002 gr

Berat cawan isi = 58,5892 gr

Berat cawan kosong = 58,3974 gr

 = $\frac{58,5892 gr-58,3974 gr x 5}{5,0002 gr}$ x 100 %

 = $\frac{0,1918 gr x 5}{5,0002 gr}$ x 100 %

 = $\frac{0,9590 gr}{5,0002 gr}$ x 100 %

 = 19,1792 %

* Sampel 2

Berat sampel = 5,0004 gr

Berat cawan isi = 60,6733 gr

Berat cawan kosong = 60,4796 gr

 = $\frac{(60,6733 gr-60,4796 gr) x 5}{5,0004 gr}$ x 100 %

 = $\frac{0,1937 gr x 5}{5,0004 gr}$ x 100 %

 = $\frac{0,9685 gr}{5,0004 gr}$ x 100 %

 = 19,3684 %

* Sampel 3

Berat sampel = 5,0002 gr

Berat cawan isi = 67,9735 gr

Berat cawan kosong = 67,7892 gr

 = $\frac{(67,9735 gr-67,7892 gr) x 5}{5,0002 gr}$ x 100 %

 = $\frac{0,1843 gr x 5}{5,0002 gr}$ x 100 %

**Lampiran 8.** (lanjutan)

 =$ \frac{0,9215 gr}{5,0002 gr}$ x 100 %

 = 18,4292 %

Rata-rata = $\frac{19,1792 \%+19,3684 \%+18,4292 \%}{3}$ = 18,9922 %

Kesimpulan : Memenuhi persyaratan

**Lampiran 9.** Perhitungan Penetapan Kadar Abu ( Tidak lebih dari 3 %)

Rumus : $\frac{Berat abu}{Berat sampel}$ x 100 %

* Sampel 1

Berat sampel = 2,0003 gr

Berat abu = Cawan isi – cawan kosong

 = 62,6473 gr – 62,5965 gr

 = 0,0508 gr

 = $\frac{0,0508 gr}{2,0003 gr}$ x 100 %

 = 2,5396 %

* Sampel 2

Berat sampel = 2,0002 gr

Berat abu = Cawan isi – cawan kosong

 = 40,5365 gr – 40,4879 gr

 = 0,0486 gr

 = $\frac{0,0486 gr}{2,0002 gr}$ x 100 %

 = 2,4297 %

* Sampel 3

Berat sampel = 2,0004 gr

Berat abu = Cawan isi – cawan kosong

 = 61,8535 gr – 61,8127 gr

 = 0,0408 gr

 = $\frac{0,0408 gr}{2,0004 gr}$ x 100 %

 = 2,0395 %

Rata-rata = $\frac{2,5396 \%+2,4297 \%+2,0395 \%}{3}$ = 2,3362 %

Kesimpulan : Memenuhi persyaratan

**Lampiran 10.** Perhitungan Penetapan Kadar Abu Tidak Larut Dalam Asam (Tidak lebih dari 1 %)

**Rumus :** $\frac{Berat abu}{Berat sampel}$ x 100 %

* Sampel 1

Berat sampel = 2,0004 gr

Berat abu = Cawan isi – cawan kososng

 = 62,7431 gr – 62,7313 gr

 = 0,0118 gr

 = $\frac{0,0118 gr}{2,0004 gr}$ x 100 %

 = 0,5898 %

* Sampel 2

Berat sampel = 2,0002 gr

Berat abu = Cawan isi – cawan kososng

 = 41,5114 gr – 41,4979 gr

 = 0,0135 gr

 = $\frac{0,0135 gr}{2,0002 gr}$ x 100 %

 = 0,6749 %

* Sampel 3

Berat sampel = 2,0001 gr

Berat abu = Cawan isi – cawan kosong

 = 61,8913 gr – 61,8746 gr

 = 0,0167 gr

 = $\frac{0,0167 gr}{2,0001 gr}$ x 100 %

 = 0,8349 %

Rata-rata = $\frac{0,5898 \%+ 0,6749 \%+0,8349 \%}{3} $= 0,6998 %

Kesimpulan : Memenuhi persyaratan