

LAMPIRAN

Lampiran 1. Lembar Bimbingan

KONSULTASI DAN MONITORING KARYA TULIS ILMIAH

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Program Studi	Farmasi
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Tanggal Berita Acara Seminar UP	November- juni 2025/2026
Judul Karya tulis ilmiah:	

No	Tanggal	Arahan Pembimbing/Prodi	Tanda Tangan Pembimbing
1.	22/11/25	Ekstraksi smpel (kosultasi online)	
2.	18/01/26	Pembuatan sediaan serbuk effer (online)	
3.	24/04/26	Konsultasi hasil (online)	
4.	04/05/26	Konsultasi hasil (online)	
5.	06/05/26	Konsultasi hasil (online)	
6.	12/05/26	Acc hasil skripsi (online)	
7.	12/05/26	Konsultasi hasil (online)	
8.	21/05/26	Acc hasil skripsi (online)	

Ket: *)Melampirkan bukti bimbingan jika tanpa tatap muka.

Cat: Halaman berikutnya mulai dari judul kolom, dapat ditambah sesuai kebutuhan.

Palopo,

Ketua Program Studi Ilmu,

.....
NIP/NIDN.

Lampiran 2. Pengambilan dan Pengelolaan Sampel

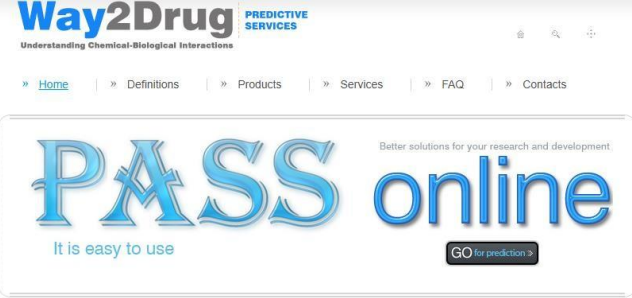
	Pengambilan Sampel Sambil diambil dalam keadaan kering, sehingga tidak dilakukan pembuatan simplisia. Dikarenakan tanaman kasumba turate hanya tumbuh tiap per 6 bulan.
	Proses penghalusan simplisia
	Proses Ekstraksi (Metode Maserasi)
	Pengentalan (Rotary Evaporator)

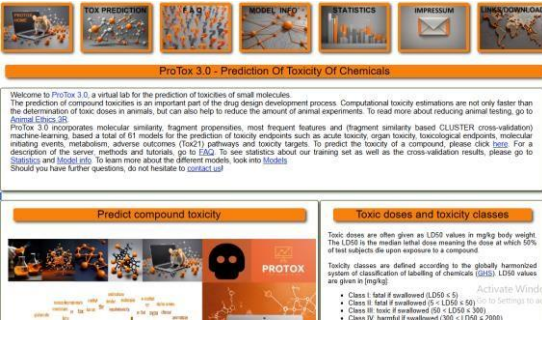
Lampiran 3. Pembuatan Sediaan Serbuk *Effervescent*

	Penyiapan & penimbangan bahan
	Pemncampuran bahan
	Formula 0 tanpa zat aktif
	Formula I konsentrasi 10%
	Formula II konsentrasi 15%

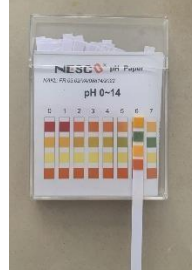
	Formula III konsentrasi 20%
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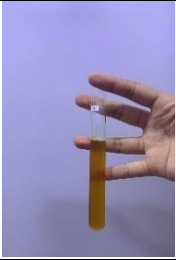
Lampiran 4. Uji Studi *In Silico*

	<i>Webserver KNApSack</i>
	<i>Webserver Way2Drug/ PASS Online</i>

	<i>Webserver SwissADME</i>
	<i>Webserver ProTox</i>

Lampiran 5. Uji Stabilitas Formula

	Uji organoleptik
	Uji pH
	Uji tinggi buih

	Uji Dispersi
	Uji waktu alir
	Uji sudut diam

Lampiran 6. Perhitungan Bahan

Formula 0

$$\text{Asam sitrat} = \frac{10}{100} \times 10gr = 1gr$$

$$\text{Asam tartrat} = \frac{20}{100} \times 10gr = 2gr$$

$$\text{Sukralosa} = \frac{25}{100} \times 10gr = 2,5gr$$

$$\text{N. bikarbonat} = \frac{10}{100} \times 10gr = 1gr$$

$$\begin{aligned} \text{Laktosa} &= 10 - (1+2+2,5+1) \\ &= 10-6,5 \\ &= 3,5gr \end{aligned}$$

Formula I

$$\text{Ekstak kasumba turate 10\%} = \frac{10}{100} \times 10gr = 1gr$$

$$\text{Asam sitrat} = \frac{10}{100} \times 10gr = 1gr$$

$$\text{Asam tartrat} = \frac{20}{100} \times 10gr = 2gr$$

$$\text{Sukralosa} = \frac{25}{100} \times 10gr = 2,5gr$$

$$\begin{aligned} \text{N. bikarbonat} &= \frac{100}{10} \times 10gr = 1gr \\ \text{Laktosa} &= 10 - (1+1+2+2,5+1) \\ &= 10-7,5 \\ &= 2,5gr \end{aligned}$$

Formula II

$$\text{Ekstak kasumba turate 15\%} = \frac{15}{100} \times 10gr = 1,5gr$$

$$\text{Asam sitrat} = \frac{10}{100} \times 10gr = 1gr$$

$$\text{Asam tartrat} = \frac{20}{100} \times 10gr = 2gr$$

$$\text{Sukralosa} = \frac{25}{100} \times 10gr = 2,5gr$$

$$\text{N. bikarbonat} = \frac{10}{100} \times 10gr = 1gr$$

$$\begin{aligned} \text{Laktosa} &= 10 - (1,5+1+2+2,5+1) \\ &= 10-7,5 \\ &= 2gr \end{aligned}$$

Formula III

$$\text{Ekstak kasumba turate 20\%} = \frac{20}{100} \times 10gr = 2gr$$

$$\text{Asam sitrat} = \frac{10}{100} \times 10gr = 1gr$$

$$\text{Asam tartrat} = \frac{20}{100} \times 10gr = 2gr$$

$$\text{Sukralosa} = \frac{25}{100} \times 10gr = 2,5gr$$

$$\text{N. bikarbonat} = \frac{10}{100} \times 10gr = 1gr$$

$$\begin{aligned} \text{Laktosa} &= 10 - (2+1+2+2,5+1) \\ &= 10-8,5 \\ &= 1,5gr \end{aligned}$$

Lampiran 7. Perhitungan Uji Sudut Diam

Rumus sudut diam :

$$\tan \theta = \frac{h}{r}$$

Keterangan :

θ = sudut diam ($^{\circ}$) h =

tinggi granul (cm) r =

jari-jari granul (cm)

Formula 0

Dik : d1 = 11 cm

d2 = 10,5 cm

T = 1,5 cm Dit : r
?

: α ? Peny :

$$\begin{aligned} T &= \frac{d_1 + d_2}{2} \\ &= \frac{11 + 10,5}{2} \\ &= \frac{21,5}{2} \\ &= 10,75 \end{aligned}$$

$$\begin{aligned} \tan \alpha &= \frac{h}{r} \\ &= \frac{1,5}{10,75} \\ &= 7,97^\circ \end{aligned}$$

Formula I

Dik : d1 = 10 cm

d2 = 10,5 cm

T = 1 cm Dit : r ?
 α ?

$$\begin{aligned} \text{Peny : } T &= \frac{d_1 + d_2}{2} \\ &= \frac{10 + 10,5}{2} \\ &= \frac{20,5}{2} \\ &= 10,25 \end{aligned}$$

$$\begin{aligned} \tan \alpha &= \frac{h}{r} \\ &= \frac{1}{10,25} \\ &= 5,14^\circ \end{aligned}$$

Formula II Dik

: d1 = 9 cm

d2 = 9 cm

T = 1 cm Dit :
r ?
 α ?

$$\begin{aligned} \text{Peny : } T &= \frac{d_1 + d_2}{2} \\ &= \frac{9 + 9}{2} \end{aligned}$$

$$\begin{aligned}
 &= \frac{18,2^2}{2} \\
 &= 9
 \end{aligned}$$

$$\begin{aligned}
 \text{Tan } \alpha &= \frac{h}{r} \\
 &= \frac{1}{9} \\
 &= 6,28^\circ
 \end{aligned}$$

Formula III Dik :

$$d1 = 9 \text{ cm}$$

$$d2 = 9,5 \text{ cm}$$

$$T = 1 \text{ cm Dik : r}$$

?

$$\alpha?$$

$$\begin{aligned}
 \text{Peny : } T &= \frac{d1+d2}{2} \\
 &= \frac{9+9,5}{2} \\
 &= \frac{18,5}{2} \\
 &= 9,25
 \end{aligned}$$

$$\begin{aligned}
 \text{Tan } \alpha &= \frac{h}{r} \\
 &= \frac{1}{9,25} \\
 &= 5,71^\circ
 \end{aligned}$$

Defani Aulia Syafitri

Naskah DEFANI AULIA SYAFITRI

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LLDIKTI IX Turnitin Consortium Part III

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