

LAMPIRAN

Lampiran 1. Determinasi tanaman Nangka

**UPT-LABORATORIUM**

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Nomor : 249/DET/UPT-LAB/27.05.2021
 Hal : Hasil determinasi tumbuhan
 Lamp. : -

Nama Pemesan : Mendy Joesephira Wisdyafanni
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 Universitas Setia Budi, Surakarta
 Nama sampel : *Artocarpus heterophyllus* Lamk.

HASIL DETERMINASI TUMBUHAN**Klasifikasi**

Kingdom : Plantae
 Super Divisi : Spermatophyta
 Divisi : Magnoliophyta
 Kelas : Magnoliopsida
 Ordo : Rosales
 Famili : Moraceae
 Genus : *Artocarpus*
 Species : *Artocarpus heterophyllus* Lamk.

Hasil Determinasi menurut Steenis, C.G.G.J.V, Bloembergen, H, Eyma, P.J. 1992 :

1b – 2b – 3b – 4b – 6b – 7b – 9b – 10b – 11b – 12b – 13b – 14a – 15a. golongan 8. 109b – 119b – 120a – 121b – 124a. Familia 38. Moraceae. b. 2. *Artocarpus*. a. *Artocarpus heterophyllus* Lamk.

Deskripsi :

Habitus : Pohon berumah satu, dengan getah yang rekat, tinggi 10 – 25 m.
 Akar : Sistem akaf tunggang.

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Lampiran 2. Surat keterangan hewan uji

Lampiran 3. Perhitungan % Rendemen

Berat Daun Nangka Basah = 2500 gram

Berat Daun Nangka Kering = 800 gram

% Rendemen Daun Nangka

$$\frac{\text{Berat daun nangka kering}}{\text{Berat daun nangka basah}} \times 100\% = \frac{800 \text{ gram}}{2500 \text{ gram}} \times 100\% = 32\%$$

Lampiran 4. Alat dan bahan



Daun nangka kering



Mencit



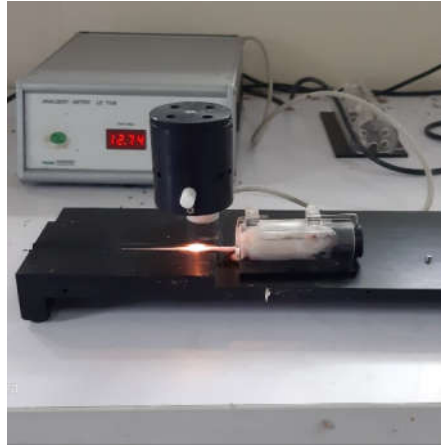
Mencit



Infusa daun nangka



Proses pemberian perlakuan



Proses uji analgetik



Alat uji flavonoid



amil alkohol



HCl pekat



Mg



Hasil uji flavonoid

Lampiran 5. Perhitungan dosis Na-CMC, paracetamol, dan infusa

Pada penelitian ini menggunakan 25 mencit, setiap kelompok perlakuan terdiri dari 5 mencit.

Kontrol negatif Na-CMC 0,5 ml/20 g BB mencit

$$\text{Mencit 1} = \frac{0,5 \text{ ml}}{20 \text{ g}} \times 23 \text{ g} = 0,57 \text{ ml}$$

$$\text{Mencit 2} = \frac{0,5 \text{ ml}}{20 \text{ g}} \times 23 \text{ g} = 0,57 \text{ ml}$$

$$\text{Mencit 3} = \frac{0,5 \text{ ml}}{20 \text{ g}} \times 22 \text{ g} = 0,55 \text{ ml}$$

$$\text{Mencit 4} = \frac{0,5 \text{ ml}}{20 \text{ g}} \times 23 \text{ g} = 0,57 \text{ ml}$$

$$\text{Mencit 5} = \frac{0,5 \text{ ml}}{20 \text{ g}} \times 21 \text{ g} = 0,52 \text{ ml}$$

Kontrol positif paracetamol 1,3 mg/20 g BB mencit

$$\text{Mencit 1} = \frac{21 \text{ g}}{20 \text{ g}} \times 1,3 \text{ mg} = 1,36 \text{ mg}/21 \text{ g}$$

$$\text{Larutan stok 0,5 \%} = \frac{1,36 \text{ mg}}{500 \text{ mg}} \times 100 \text{ ml} = 0,27 \text{ ml}$$

$$\text{Mencit 2} = \frac{23 \text{ g}}{20 \text{ g}} \times 1,3 \text{ mg} = 1,49 \text{ mg}/23 \text{ g}$$

$$\text{Larutan stok 0,5\%} = \frac{1,49 \text{ mg}}{500 \text{ mg}} \times 100 \text{ ml} = 0,29 \text{ ml}$$

$$\text{Mencit 3} = \frac{23 \text{ g}}{20 \text{ g}} \times 1,3 \text{ mg} = 1,49 \text{ mg}/23 \text{ g}$$

$$\text{Larutan stok 0,5\%} = \frac{1,49 \text{ mg}}{500 \text{ mg}} \times 100 \text{ ml} = 0,29 \text{ ml}$$

$$\text{Mencit 4} = \frac{22 \text{ g}}{20 \text{ g}} \times 1,3 \text{ mg} = 1,43 \text{ mg}/22 \text{ g}$$

$$\text{Larutan stok 0,5\%} = \frac{1,43 \text{ mg}}{500 \text{ mg}} \times 100 \text{ ml} = 0,28 \text{ ml}$$

$$\text{Mencit 5} = \frac{23 \text{ g}}{20 \text{ g}} \times 1,3 \text{ mg} = 1,49 \text{ mg}/23 \text{ g}$$

$$\text{Larutan stok 0,5\%} = \frac{1,49 \text{ mg}}{500 \text{ mg}} \times 100 \text{ ml} = 0,29 \text{ ml}$$

Infusa daun nangka 300 mg/kg BB mencit

Mencit 1	$= \frac{300 \text{ mg}}{1000 \text{ gr}} \times 23 \text{ gr} = 6,9 \text{ mg}/23 \text{ gr}$
Konsentrasi 5%	$= \frac{6,9 \text{ mg}}{5000 \text{ mg}} \times 100 \text{ ml} = 0,138 \text{ ml}$
Mencit 2	$= \frac{300 \text{ mg}}{1000 \text{ gr}} \times 21 \text{ gr} = 6,3 \text{ mg}/21 \text{ gr}$
Konsentrasi 5%	$= \frac{6,3 \text{ mg}}{5000 \text{ mg}} \times 100 \text{ ml} = 0,126 \text{ ml}$
Mencit 3	$= \frac{300 \text{ mg}}{1000 \text{ gr}} \times 23 \text{ gr} = 6,9 \text{ mg}/23 \text{ gr}$
Konsentrasi 5%	$= \frac{6,9 \text{ mg}}{5000 \text{ mg}} \times 100 \text{ ml} = 0,138 \text{ ml}$
Mencit 4	$= \frac{300 \text{ mg}}{1000 \text{ gr}} \times 22 \text{ gr} = 6,6 \text{ mg}/22 \text{ gr}$
Konsentrasi 5%	$= \frac{6,6 \text{ mg}}{5000 \text{ mg}} \times 100 \text{ ml} = 0,132 \text{ ml}$
Mencit 5	$= \frac{300 \text{ mg}}{1000 \text{ gr}} \times 22 \text{ gr} = 6,6 \text{ mg}/22 \text{ gr}$
Konsentrasi 5%	$= \frac{6,6 \text{ mg}}{5000 \text{ mg}} \times 100 \text{ ml} = 0,132 \text{ ml}$

Infusa daun nangka 600 mg/kg BB mencit

Mencit 1	$= \frac{300 \text{ mg}}{1000 \text{ gr}} \times 22 \text{ gr} = 6,6 \text{ mg}/22 \text{ gr}$
Konsentrasi 5%	$= \frac{6,6 \text{ mg}}{5000 \text{ mg}} \times 100 \text{ ml} = 0,132 \text{ ml}$
Mencit 2	$= \frac{300 \text{ mg}}{1000 \text{ gr}} \times 21 \text{ gr} = 6,3 \text{ mg}/21 \text{ gr}$
Konsentrasi 5%	$= \frac{6,3 \text{ mg}}{5000 \text{ mg}} \times 100 \text{ ml} = 0,126 \text{ ml}$
Mencit 3	$= \frac{300 \text{ mg}}{1000 \text{ gr}} \times 23 \text{ gr} = 6,9 \text{ mg}/23 \text{ gr}$
Konsentrasi 5%	$= \frac{6,9 \text{ mg}}{5000 \text{ mg}} \times 100 \text{ ml} = 0,138 \text{ ml}$
Mencit 4	$= \frac{300 \text{ mg}}{1000 \text{ gr}} \times 23 \text{ gr} = 6,9 \text{ mg}/23 \text{ gr}$

$$\begin{aligned} \text{Konsentrasi 5\%} &= \frac{6,9 \text{ mg}}{5000 \text{ mg}} \times 100 \text{ ml} = 0,138 \text{ ml} \\ \text{Mencit 5} &= \frac{300 \text{ mg}}{1000 \text{ gr}} \times 22 \text{ gr} = 6,6 \text{ mg/22 gr} \\ \text{Konsentrasi 5\%} &= \frac{6,6 \text{ mg}}{5000 \text{ mg}} \times 100 \text{ ml} = 0,132 \text{ ml} \end{aligned}$$

Infusa daun nangka 1200 mg/kg BB mencit

$$\begin{aligned} \text{Mencit 1} &= \frac{300 \text{ mg}}{1000 \text{ gr}} \times 23 \text{ gr} = 6,9 \text{ mg/23 gr} \\ \text{Konsentrasi 5\%} &= \frac{6,9 \text{ mg}}{5000 \text{ mg}} \times 100 \text{ ml} = 0,138 \text{ ml} \\ \text{Mencit 2} &= \frac{300 \text{ mg}}{1000 \text{ gr}} \times 23 \text{ gr} = 6,9 \text{ mg/23 gr} \\ \text{Konsentrasi 5\%} &= \frac{6,9 \text{ mg}}{5000 \text{ mg}} \times 100 \text{ ml} = 0,138 \text{ ml} \\ \text{Mencit 3} &= \frac{300 \text{ mg}}{1000 \text{ gr}} \times 22 \text{ gr} = 6,6 \text{ mg/22 gr} \\ \text{Konsentrasi 5\%} &= \frac{6,6 \text{ mg}}{5000 \text{ mg}} \times 100 \text{ ml} = 0,132 \text{ ml} \\ \text{Mencit 4} &= \frac{300 \text{ mg}}{1000 \text{ gr}} \times 22 \text{ gr} = 6,6 \text{ mg/22 gr} \\ \text{Konsentrasi 5\%} &= \frac{6,6 \text{ mg}}{5000 \text{ mg}} \times 100 \text{ ml} = 0,132 \text{ ml} \\ \text{Mencit 5} &= \frac{300 \text{ mg}}{1000 \text{ gr}} \times 23 \text{ gr} = 6,9 \text{ mg/23 gr} \\ \text{Konsentrasi 5\%} &= \frac{6,9 \text{ mg}}{5000 \text{ mg}} \times 100 \text{ ml} = 0,138 \text{ ml} \end{aligned}$$

Lampirann 6. Data hasil penelitian

Perlakuan	Mencit ke-1	Mencit ke- (detik)				
		T0	T30	T60	T90	T120
Kontrol negatif	1	1,31	1,67	2,30	2,49	3,92
	2	1,27	3,14	2,53	5,54	4,53
	3	1,16	1,41	2,19	3,84	5,06
	4	1,19	1,51	2,46	3,33	4,36
	5	1,25	3,44	4,16	4,61	5,15
Kontrol Positif	1	1,36	2,64	2,21	4,10	5,05
	2	1,57	3,50	5,03	6,63	8,88
	3	1,45	4,35	8,07	7,74	8,61
	4	1,20	2,64	2,92	3,88	4,29
	5	1,40	2,71	3,77	5,97	8,54
Infusa daun Nangka 300mg/kg BB	1	1,38	1,74	2,94	4,13	5,48
	2	1,39	2,73	4,55	6,42	7,22
	3	1,32	2,24	3,79	3,82	4,91
	4	1,45	3,87	6,35	8,16	6,62
	5	1,35	3,23	4,46	4,51	5,37
Infusa daun Nangka 600 mg/kg BB	1	1,27	1,96	2,47	3,75	4,95

	2	1,29	2,78	3,07	3,43	5,19
	3	1,49	3,78	4,69	6,20	8,23
	4	1,40	2,21	4,39	5,03	7,76
	5	1,65	3,87	5,94	7,54	9,38
Infusa daun Nangka 1200 mg/kg BB	1	1,55	2,06	2,76	5,77	9,06
	2	1,39	2,09	3,12	5,16	7,99
	3	1,67	4,53	4,99	7,97	9,36
	4	1,60	4,37	2,99	5,31	9,21
	5	1,42	5,30	7,60	7,43	8,40

Lampiran 7. Perhitungan waktu daya tahan panas

Perlakuan	Mencit ke-1	Mencit ke- (detik)			
		T30-T0	T60-T0	T90-T0	T120-T0
	1	0,36	0,99	1,18	2,61
	2	1,87	1,26	4,27	3,26
Kontrol negatif	3	0,25	1,03	2,68	3,90
	4	0,32	1,27	2,14	3,17
	5	2,19	2,91	3,36	3,90
X ± SD	±	1,00 ± 0,95	1,49 ± 0,80	2,73 ± 1,17	3,37 ± 0,55
	1	1,28	0,85	2,74	3,69
	2	1,93	3,46	5,06	7,31
Kontrol positif	3	2,90	6,62	6,29	7,16
	4	1,44	1,72	2,68	3,09
	5	1,31	2,37	4,57	7,14
X ± SD		1,77 ± 0,68	3,00 ± 2,23	4,27 ± 1,55	5,68 ± 2,10
	1	0,36	1,56	2,75	4,10
	2	1,34	3,16	5,03	5,83
Infusa daun Nangka 300mg/kg BB	3				
		0,92	2,47	2,50	3,59
	4	2,42	4,90	6,71	5,17
	5	1,88	3,11	3,16	4,02

X ± SD		1,38 ± 0,80	3,04 ± 1,22	4,03 ± 1,80	4,54 ± 0,93
	1	0,69	1,20	2,48	3,68
	2	1,49	1,78	2,14	3,90
Infusa daun Nangka 600 mg/kg BB	3	2,29	3,20	4,71	6,74
	4	0,81	2,99	3,63	6,36
	5	2,22	4,29	5,89	7,73
X ± SD		1,50 ± 0,75	2,69 ± 1,22	3,77 ± 1,56	5,68 ± 1,80
	1	0,51	1,21	4,22	7,51
	2	0,61	1,73	3,77	6,60
Infusa daun Nangka 1200 mg/kg BB	3	2,86	3,32	6,30	7,69
	4	2,77	1,39	3,71	7,61
	5	3,88	6,18	6,01	6,98
X ± SD		2,13 ± 1,49	2,77 ± 2,08	4,80 ± 1,25	7,28 ± 0,47

lampiran 8. Perhitungan AUC

Perlakuan	Mencit ke-1	Mencit ke- (detik)			
		T30-T0	T60-T0	T90-T0	T120-T0
	1	5,40	20,25	32,55	56,85
	2	28,05	46,95	82,95	112,95
Kontrol negatif	3	3,75	19,20	55,65	98,70
	4	4,80	23,85	51,15	79,65
	5	32,85	76,50	94,05	108,90
X ± SD	±	14,97 ± 14,25	37,35 ± 24,64	63,27 ± 24,92	91,41 ± 23,21
	1	19,20	31,95	53,85	96,45
	2	28,95	80,85	127,80	185,55
Kontrol positif	3	43,50	142,80	193,65	201,75
	4	21,60	47,40	66,00	86,55
	5	19,65	55,20	104,10	175,65
X ± SD		26,58 ± 10,24	71,64 ± 43,54	109,08 ± 55,75	149,19 ± 53,60
	1	5,40	28,80	64,65	102,75
	2	20,10	67,50	122,85	162,90
Infusa daun Nangka 300mg/kg BB	3	13,80	50,85	74,55	91,35

	4	36,30	109,80	174,15	178,20
	5	28,20	74,85	94,05	107,70
X ± SD		20,76 ± 12,06	66,36 ± 30,05	106,05 ± 44,07	128,58 ± 39,14
	1	10,35	28,35	55,20	92,40
	2	22,35	49,05	58,80	90,60
Infusa daun Nangka 600 mg/kg BB	3				
		34,35	82,35	118,65	171,75
	4	12,15	57,00	99,30	149,85
	5	33,30	97,65	152,70	204,30
X ± SD		22,50 ± 11,31	62,88 ± 27,41	96,93 ± 41,18	141,78 ± 49,82
	1	7,65	25,80	81,45	175,95
	2	9,15	35,10	82,50	155,55
Infusa daun Nangka 1200 mg/kg BB	3				
		42,90	92,70	144,30	209,85
	4	41,55	62,40	76,50	169,80
	5	58,20	150,90	182,85	194,85
X ± SD		31,89 ± 22,42	73,38 ± 50,58	113,52 ± 47,74	181,20 ± 21,35

Kontrol negatif

Mencit 1	AUC^0_{30}	$= \frac{0,36+0}{2} (30-0) = 0,18 \times 30 = 5,4$
	AUC^{30}_{60}	$= \frac{0,99+0,36}{2} (60-30) = 0,675 \times 30 = 20,25$
	AUC^{60}_{90}	$= \frac{1,18+0,99}{2} (90-60) = 1,085 \times 30 = 32,55$
	AUC^{90}_{120}	$= \frac{2,61+1,18}{2} (120-90) = 1,895 \times 30 = 56,85$
Mencit 2	AUC^0_{30}	$= \frac{1,87+0}{2} (30-0) = 0,935 \times 30 = 28,05$
	AUC^{30}_{60}	$= \frac{1,26+1,87}{2} (60-30) = 1,565 \times 30 = 46,95$
	AUC^{60}_{90}	$= \frac{4,27+1,26}{2} (90-60) = 2,765 \times 30 = 82,95$
	AUC^{90}_{120}	$= \frac{3,26+4,27}{2} (120-90) = 3,765 \times 30 = 112,95$
Mencit 3	AUC^0_{30}	$= \frac{0,25+0}{2} (30-0) = 0,125 \times 30 = 3,75$
	AUC^{30}_{60}	$= \frac{1,03+0,25}{2} (60-30) = 0,64 \times 30 = 19,2$
	AUC^{60}_{90}	$= \frac{2,68+1,03}{2} (90-60) = 1,875 \times 30 = 55,65$
	AUC^{90}_{120}	$= \frac{3,90+2,68}{2} (120-90) = 1,895 \times 30 = 98,7$
Mencit 4	AUC^0_{30}	$= \frac{0,32+0}{2} (30-0) = 0,16 \times 30 = 4,8$
	AUC^{30}_{60}	$= \frac{1,27+0,32}{2} (60-30) = 0,795 \times 30 = 23,85$
	AUC^{60}_{90}	$= \frac{2,14+1,27}{2} (90-60) = 1,705 \times 30 = 51,15$
	AUC^{90}_{120}	$= \frac{3,17+2,14}{2} (120-90) = 2,655 \times 30 = 79,65$
Mencit 5	AUC^0_{30}	$= \frac{2,19+0}{2} (30-0) = 1,095 \times 30 = 32,85$
	AUC^{30}_{60}	$= \frac{2,91+2,19}{2} (60-30) = 2,55 \times 30 = 76,5$
	AUC^{60}_{90}	$= \frac{3,36+2,91}{2} (90-60) = 3,135 \times 30 = 94,05$

$$AUC_{120}^{90} = \frac{3,90+3,36}{2} (120-90) = 3,63 \times 30 = 108,9$$

Kontrol positif

Mencit 1 $AUC_{30}^0 = \frac{1,28+0}{2} (30-0) = 0,64 \times 30 = 19,2$

$$AUC_{60}^{30} = \frac{0,85+1,28}{2} (60-30) = 1,065 \times 30 = 31,95$$

$$AUC_{90}^{60} = \frac{2,74+0,85}{2} (90-60) = 1,795 \times 30 = 53,85$$

$$AUC_{120}^{90} = \frac{3,69+2,74}{2} (120-90) = 3,215 \times 30 = 96,45$$

Mencit 2 $AUC_{30}^0 = \frac{1,93+0}{2} (30-0) = 0,965 \times 30 = 28,95$

$$AUC_{60}^{30} = \frac{3,46+1,93}{2} (60-30) = 2,695 \times 30 = 80,85$$

$$AUC_{90}^{60} = \frac{5,06+3,46}{2} (90-60) = 4,26 \times 30 = 127,8$$

$$AUC_{120}^{90} = \frac{7,31+5,06}{2} (120-90) = 6,185 \times 30 = 185,55$$

Mencit 3 $AUC_{30}^0 = \frac{2,90+0}{2} (30-0) = 1,45 \times 30 = 43,5$

$$AUC_{60}^{30} = \frac{6,62+2,90}{2} (60-30) = 4,76 \times 30 = 142,8$$

$$AUC_{90}^{60} = \frac{6,29+6,62}{2} (90-60) = 6,45 \times 30 = 193,65$$

$$AUC_{120}^{90} = \frac{7,16+6,29}{2} (120-90) = 6,72 \times 30 = 201,75$$

Mencit 4 $AUC_{30}^0 = \frac{1,44+0}{2} (30-0) = 0,72 \times 30 = 21,6$

$$AUC_{60}^{30} = \frac{1,72+1,44}{2} (60-30) = 1,58 \times 30 = 47,4$$

$$AUC_{90}^{60} = \frac{2,68+1,72}{2} (90-60) = 2,2 \times 30 = 66$$

$$AUC_{120}^{90} = \frac{3,09+2,68}{2} (120-90) = 2,88 \times 30 = 86,55$$

Mencit 5 $AUC_{30}^0 = \frac{1,31+0}{2} (30-0) = 0,65 \times 30 = 19,65$

$$\begin{aligned} \text{AUC}_{60}^{30} &= \frac{2,37+1,31}{2} (60-30) = 1,84 \times 30 = 55,2 \\ \text{AUC}_{90}^{60} &= \frac{4,57+2,37}{2} (90-60) = 3,47 \times 30 = 104,1 \\ \text{AUC}_{120}^{90} &= \frac{7,14+4,57}{2} (120-90) = 5,85 \times 30 = 175,65 \end{aligned}$$

Infusa daun nangka 300 mg/kg BB

Mencit 1	AUC_{30}^0	$= \frac{0,51+0}{2} (30-0) = 0,25 \times 30 = 7,65$
	AUC_{60}^{30}	$= \frac{1,21+0,51}{2} (60-30) = 0,86 \times 30 = 25,8$
	AUC_{90}^{60}	$= \frac{4,22+1,21}{2} (90-60) = 2,71 \times 30 = 81,45$
	AUC_{120}^{90}	$= \frac{7,51+4,22}{2} (120-90) = 5,86 \times 30 = 175,95$
Mencit 2	AUC_{30}^0	$= \frac{0,61+0}{2} (30-0) = 0,30 \times 30 = 9,15$
	AUC_{60}^{30}	$= \frac{1,73+0,61}{2} (60-30) = 1,17 \times 30 = 35,1$
	AUC_{90}^{60}	$= \frac{3,77+1,73}{2} (90-60) = 2,75 \times 30 = 82,5$
	AUC_{120}^{90}	$= \frac{6,60+3,77}{2} (120-90) = 5,18 \times 30 = 155,55$
Mencit 3	AUC_{30}^0	$= \frac{2,86+0}{2} (30-0) = 1,43 \times 30 = 42,9$
	AUC_{60}^{30}	$= \frac{3,32+2,86}{2} (60-30) = 3,09 \times 30 = 92,7$
	AUC_{90}^{60}	$= \frac{6,30+3,32}{2} (90-60) = 4,81 \times 30 = 144,3$
	AUC_{120}^{90}	$= \frac{7,69+6,30}{2} (120-90) = 6,99 \times 30 = 209,85$
Mencit 4	AUC_{30}^0	$= \frac{2,77+0}{2} (30-0) = 1,38 \times 30 = 41,55$
	AUC_{60}^{30}	$= \frac{1,39+2,77}{2} (60-30) = 2,08 \times 30 = 62,4$
	AUC_{90}^{60}	$= \frac{3,17+1,39}{2} (90-60) = 3,55 \times 30 = 76,5$

$$\begin{aligned}
 & AUC_{120}^{90} = \frac{7,61+3,71}{2} (120-90) = 5,66 \times 30 = 169,8 \\
 \text{Mencit 5} \quad & AUC_{30}^0 = \frac{3,88+0}{2} (30-0) = 1,94 \times 30 = 58,2 \\
 & AUC_{60}^{30} = \frac{6,18+3,88}{2} (60-30) = 5,03 \times 30 = 150,9 \\
 & AUC_{90}^{60} = \frac{6,01+6,18}{2} (90-60) = 6,09 \times 30 = 182,85 \\
 & AUC_{120}^{90} = \frac{6,98+6,01}{2} (120-90) = 6,49 \times 30 = 194,85
 \end{aligned}$$

Infusa daun nangka 600 mg/kg BB

$$\begin{aligned}
 \text{Mencit 1} \quad & AUC_{30}^0 = \frac{0,36+0}{2} (30-0) = 0,18 \times 30 = 5,4 \\
 & AUC_{60}^{30} = \frac{1,56+0,36}{2} (60-30) = 0,96 \times 30 = 28,8 \\
 & AUC_{90}^{60} = \frac{2,75+1,56}{2} (90-60) = 2,15 \times 30 = 64,65 \\
 & AUC_{120}^{90} = \frac{4,10+2,75}{2} (120-90) = 3,42 \times 30 = 102,75 \\
 \text{Mencit 2} \quad & AUC_{30}^0 = \frac{1,34+0}{2} (30-0) = 0,67 \times 30 = 20,1 \\
 & AUC_{60}^{30} = \frac{3,16+1,34}{2} (60-30) = 2,25 \times 30 = 67,5 \\
 & AUC_{90}^{60} = \frac{5,03+3,16}{2} (90-60) = 4,09 \times 30 = 122,85 \\
 & AUC_{120}^{90} = \frac{5,83+5,03}{2} (120-90) = 5,43 \times 30 = 162,9 \\
 \text{Mencit 3} \quad & AUC_{30}^0 = \frac{0,92+0}{2} (30-0) = 0,46 \times 30 = 13,8 \\
 & AUC_{60}^{30} = \frac{2,47+0,92}{2} (60-30) = 1,69 \times 30 = 50,85 \\
 & AUC_{90}^{60} = \frac{2,50+2,47}{2} (90-60) = 2,48 \times 30 = 74,55 \\
 & AUC_{120}^{90} = \frac{3,59+2,50}{2} (120-90) = 3,04 \times 30 = 91,35 \\
 \text{Mencit 4} \quad & AUC_{30}^0 = \frac{2,42+0}{2} (30-0) = 1,21 \times 30 = 36,3
 \end{aligned}$$

$$\begin{aligned}
 & AUC^{30}_{60} = \frac{4,90+2,42}{2} (60-30) = 3,66 \times 30 = 109,8 \\
 & AUC^{60}_{90} = \frac{6,71+4,90}{2} (90-60) = 5,80 \times 30 = 174,15 \\
 & AUC^{90}_{120} = \frac{5,17+6,71}{2} (120-90) = 5,94 \times 30 = 178,2 \\
 \text{Mencit 5} \quad & AUC^0_{30} = \frac{1,88+0}{2} (30-0) = 0,94 \times 30 = 28,2 \\
 & AUC^{30}_{60} = \frac{3,11+1,88}{2} (60-30) = 2,49 \times 30 = 74,85 \\
 & AUC^{60}_{90} = \frac{3,16+3,11}{2} (90-60) = 3,13 \times 30 = 94,05 \\
 & AUC^{90}_{120} = \frac{4,02+3,16}{2} (120-90) = 3,59 \times 30 = 107,7
 \end{aligned}$$

Infusa daun nangka 1200 mg/kg BB

$$\begin{aligned}
 \text{Mencit 1} \quad & AUC^0_{30} = \frac{0,69+0}{2} (30-0) = 0,34 \times 30 = 10,35 \\
 & AUC^{30}_{60} = \frac{1,20+0,69}{2} (60-30) = 0,94 \times 30 = 28,35 \\
 & AUC^{60}_{90} = \frac{2,48+1,20}{2} (90-60) = 1,84 \times 30 = 55,2 \\
 & AUC^{90}_{120} = \frac{3,68+2,48}{2} (120-90) = 3,08 \times 30 = 92,4 \\
 \text{Mencit 2} \quad & AUC^0_{30} = \frac{1,49+0}{2} (30-0) = 0,74 \times 30 = 22,35 \\
 & AUC^{30}_{60} = \frac{1,78+1,49}{2} (60-30) = 1,63 \times 30 = 49,05 \\
 & AUC^{60}_{90} = \frac{2,14+1,78}{2} (90-60) = 1,96 \times 30 = 58,8 \\
 & AUC^{90}_{120} = \frac{3,90+2,14}{2} (120-90) = 3,02 \times 30 = 90,6 \\
 \text{Mencit 3} \quad & AUC^0_{30} = \frac{2,29+0}{2} (30-0) = 1,14 \times 30 = 34,35 \\
 & AUC^{30}_{60} = \frac{3,20+2,29}{2} (60-30) = 2,74 \times 30 = 82,35 \\
 & AUC^{60}_{90} = \frac{4,71+3,20}{2} (90-60) = 3,95 \times 30 = 118,65
 \end{aligned}$$

	AUC_{120}^{90}	$= \frac{6,74+4,71}{2} (120-90) = 5,72 \times 30 = 171,75$
Mencit 4	AUC_{30}^0	$= \frac{0,81+0}{2} (30-0) = 0,40 \times 30 = 12,15$
	AUC_{60}^{30}	$= \frac{2,99+0,81}{2} (60-30) = 1,9 \times 30 = 57$
	AUC_{90}^{60}	$= \frac{3,63+2,99}{2} (90-60) = 3,31 \times 30 = 99,3$
	AUC_{120}^{90}	$= \frac{6,36+3,63}{2} (120-90) = 4,99 \times 30 = 149,85$
Mencit 5	AUC_{30}^0	$= \frac{2,22+0}{2} (30-0) = 1,11 \times 30 = 33,3$
	AUC_{60}^{30}	$= \frac{4,29+2,22}{2} (60-30) = 3,25 \times 30 = 97,65$
	AUC_{90}^{60}	$= \frac{5,89+4,29}{2} (90-60) = 5,09 \times 30 = 152,7$
	AUC_{120}^{90}	$= \frac{7,73+5,89}{2} (120-90) = 6,81 \times 30 = 204,3$

Lampiran 9. Perhitungan AUC total rata-rata

Kelompok perlakuan	AUC total \pm SD
Kontrol negatif	51,75 \pm 5,05
Kontrol positif	89,12 \pm 21,04
Infusa daun nangka 300 mg/kg BB	80,43 \pm 14,09
Infusa daun nangka 600 mg/kg BB	81,02 \pm 16,83
Infusa daun nangka 1200 mg/kg BB	98,01 \pm 15,79

Lampiran 10. Perhitungan % daya analgetik**1. % daya analgetik kontrol positif**

$$\frac{89,12-51,75}{89,12} \times 100\% = 41,93\%$$

2. % daya analgetik infusa daun nangka 300 mg/kg BB

$$\frac{80,43-51,75}{80,43} \times 100\% = 35,65\%$$

3. % daya analgetik infusa daun nangka 600 mg/kg BB

$$\frac{81,02-51,75}{81,02} \times 100\% = 36,12\%$$

4. % daya analgetik infusa daun nangka 1200 mg/kg BB

$$\frac{99,99-51,75}{99,99} \times 100\% = 48,24\%$$

Lampiran 11. Uji Analisa Anova varian satu jalan infusa daun Nangka pada taraf kepercayaan 95%

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	Df	Sig.
Waktu	.093	100	.031	.939	100	.200

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
waktu	Based on Mean	3.004	4	95	.022
	Based on Median	2.136	4	95	.082
	Based on Median and with adjusted df	2.136	4	80.041	.084
	Based on trimmed mean	2.965	4	95	.064

ANOVA

waktu					
	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	47.403	4	11.851	3.054	.025
Within Groups	368.634	95	3.880		
Total	416.037	99			

WaktuTukey HSD^a

perlakuan	N	Subset for alpha = 0.05	
		1	2
kontrol negatif	20	2.1460	
infusa daun nangka 300 mg/kg BB	20	3.2490	3.2490
infusa daun nangka 600 mg/kg BB	20	3.4110	3.4110
kontrol positif	20	3.6805	3.6805
infusa daun nangka 1200 mg/kg BB	20		4.2430
Sig.		.108	.504

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 20.000.