


Lampiran 1. Certificate of Analysis Ibuprofen

776/16


Shasun®
 For Life - Science Works

Quality Control			
CERTIFICATE OF ANALYSIS			
Product Name		: IBUPROFEN BP/Ph.Eur (S250 Grade)	
Batch No.	: IBD1603049	Batch Size	: 2000.00 Kg
Manufacturing date	: March 2016	Retest date	: February 2021
Date of Analysis	: 10-03-2016	A.R.No.	: FPIBD1603049
Specification No.	: SPEC-SCQY-023	Rev. No.:	12
Description of Packing : Sea Worthy Fibre Drum		Page No.	: Page 1 of 3

S.No.	Test	Specification	Result
1.	Appearance	White or almost white, fine crystalline powder or colourless crystals	White, fine crystalline powder
2.	Solubility	Freely soluble in acetone, in methanol and in methylene chloride. Dissolves in dilute solutions of alkali hydroxides and carbonates. Practically insoluble in water	Complies
3.	Identification		
	a) Melting Point	75.0°C to 78.0 °C	76.1°C
	b) IR	The IR spectrum of sample should be concordant with the spectrum of Ibuprofen WS	Complies
4.	Appearance of solution	10 % w/v solution in methanol should be clear and colourless	Complies
5.	Optical rotation	- 0.05° to + 0.05°	0.00 °
6.	Related substances (by HPLC)		
	1.Specified Impurities:		
	a) 2-(4-Isobutyl) Phenyl] Propanoic Acid (Impurity J)	NMT 0.05 % (Area %)	BDL (Disregard Limit: 0.03%)
	b) (2RS)-2-[3-(2-methyl propyl) phenyl] Propanoic acid (Impurity A)	NMT 0.15 % (Area %)	BDL (Disregard Limit: 0.03%)
	c) (2RS)-2-[4-ethyl phenyl] Propanoic acid (Impurity N) *	NMT 0.15 % (Area %)	Not detected
2.Other detectable impurities:			
2.1 Identified Unspecified impurities:			
	a) 2-(4-Butyl phenyl)propanoic acid (Impurity B)	NMT 0.05 % (Area %)	BDL (Disregard Limit: 0.03%)

SOP-CQA-005/F-07/01 WEF:16/09/2013

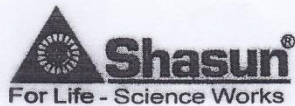
SOP-CQA-005/A-01/01

Shasun Pharmaceuticals Limited

R.S.No. 33 & 34, Shasun Road, Periyakalpet, Puducherry - 605 014, India.

Phone : +91 413-2654100 Fax : +91 413-2655154

E-mail : shapdy@shasun.com



Quality Control			
CERTIFICATE OF ANALYSIS			
Product Name	: IBUPROFEN BP/Ph.Eur (S250 Grade)		
Batch No.	: IBD1603049	Batch Size	: 2000.00 Kg
Manufacturing date	: March 2016	Retest date	: February 2021
Date of Analysis	: 10-03-2016	A.R.No.	: FPIBD1603049
Specification No.	: SPEC-SCQY-023	Rev. No.:	12
		Page No.	: Page 2 of 3
Description of Packing : Sea Worthy Fibre Drum			

S.No.	Test	Specification	Result
	b)(2RS)-2-[4-methyl phenyl] propanoic acid (Impurity D)	NMT 0.05 % (Area %)	BDL (Disregard Limit: 0.03%)
	c)4-Isobutylacetophenone (Impurity E)	NMT 0.05 % (Area %)	BDL (Disregard Limit: 0.03%)
	d)2-[4-(1-hydroxy-2-methyl propyl)-phenyl]propanoic acid (Impurity L)	NMT 0.05 % (Area %)	BDL (Disregard Limit: 0.03%)
	e)(2RS)-2-hydroxy-2-[4-(2-methyl propyl)-phenyl] propanoic acid (Impurity M)	NMT 0.05 % (Area %)	BDL (Disregard Limit: 0.03%)
	2.2 Any unspecified impurity	NMT 0.05 % (Area %)	BDL (Disregard Limit: 0.03%)
	3.Total impurities	NMT 0.20% (Area %)	BDL (Disregard Limit: 0.03%)
7.	Heavy metals	NMT 10 ppm	LT 10 ppm
8.	Loss on drying	NMT 0.50 % (w/w)	0.11% (w/w)
9.	Sulphated ash	NMT 0.10 % (w/w)	0.05% (w/w)
10.	Assay by titration (Dry basis)	98.5 % -101.0 % (w/w)	99.7% (w/w)
ADDITIONAL TESTS			
a.	Bulk Density Un tapped	0.20 – 0.40 g/mL	0.33g/mL
	Tapped (1250 tappings)	0.35 – 0.67 g/mL	0.52g/mL
b.	Mean Particle Size	20.0 – 35.0 Microns	23.4 Microns

SOP-CQA-005/F-07/01 WEF:16/09/2013

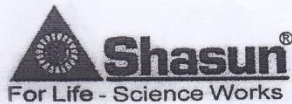
SOP-CQA-005/A-01/01

Shasun Pharmaceuticals Limited

R.S.No. 33 & 34, Shasun Road, Periyakalpet, Puducherry - 605 014, India.

Phone : +91 413-2654100 Fax : +91 413-2655154

E-mail : shapdy@shasun.com



Quality Control			
CERTIFICATE OF ANALYSIS			
Product Name : IBUPROFEN BP/Ph.Eur (S250 Grade)			
Batch No. :	IBD1603049	Batch Size :	2000.00 Kg
Manufacturing date :	March 2016	Retest date :	February 2021
Date of Analysis :	10-03-2016	A.R.No. :	FPIBD1603049
Specification No. :	SPEC-SCQY-023	Rev. No.:	12
		Page No. :	Page 3 of 3
Description of Packing :Sea Worthy Fibre Drum			

S.No.	Test	Specification	Result
c.	Residual solvents		
	i) Acetone	NMT 100 ppm	2 ppm
	ii) Isopropyl alcohol	NMT 250 ppm	BLD (LOD= 1.04 ppm)
	iii) Hexanes	NMT 290 ppm	38 ppm
	iv) Tri chloro ethylene	NMT 80 ppm	BLD (LOD= 1.27 ppm)
	v) Methanol φ	NMT 500 ppm	Not Detected

* Impurity N is irrelevant to the process employed. The test included to comply with EP monograph.
 φ Not used in the process, test included for compliance with certificate of suitability.
 Note: NMT = Not more than LT = Less than BDL = Below Disregard Limit BLD = Below Limit of Detection
 LOD = Limit of Detection
 Remark: The material conforms to the specification.

	Prepared by	Reviewed by	Approved by
Signature	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
Date	14/03/2016	14/03/2016	14/03/2016

CEP Number:RI-CEP1996-061-Rev10

SOP-CQA-005/F-07/01 WEF:16/09/2013

SOP-CQA-005/A-01/01	Shasun Pharmaceuticals Limited	
	R.S.No. 33 & 34, Shasun Road, Periyakalpet, Puducherry - 605 014, India.	
	Phone : +91 413-2654100 Fax : +91 413-2655154	
	E-mail : shapdy@shasun.com	



Lampiran 2. Hasil Uji Identifikasi Bahan

- Uji Identifikasi Ibuprofen (sesuai dengan CoA)

Identifikasi	Spesifikasi dalam CoA	Hasil
Organoleptis	Warna : Putih Bau : Tidak berbau Bentuk : Serbuk kristal	Warna : Putih Bau : Tidak berbau Bentuk : Serbuk kristal
Kelarutan	Mudah larut dalam aseton, metanol, metilen klorida. Praktis tidak larut dalam air	200.9 mg ibuprofen larut dalam 20 ml metanol
Titik Leleh	75-78 ^o C	100.7 mg meleleh pada suhu 75 ^o C
Panjang gelombang maksimum	221 nm (Gupta, <i>et.al</i> , 2011)	Didapatkan panjang gelombang maksimal dari ibuprofen adalah 221.6 nm.

- Uji Identifikasi Xylitol (sesuai dengan monografi)

Identifikasi	Spesifikasi dalam HOPE	Hasil
Organoleptis	Warna : Putih Bau : Tidak berbau Bentuk : Serbuk kristal	Warna : Putih Bau : Tidak berbau Bentuk : Serbuk kristal
Kelarutan	mudah larut dalam air; larut dalam metanol dan propilen glikol; agak sukar larut dalam etanol; kurang larut dalam gliserin dan minyak kacang dan sukar larut dalam propan-2-ol	300.3 mg <i>xylitol</i> larut dalam 30 ml aquades
Titik Leleh	92,0-96,0 ^o C	100.5 mg meleleh pada suhu 95 ^o C

- Uji Identifikasi Lemak Coklat (sesuai dengan monografi)

Identifikasi	Spesifikasi dalam HOPE	Hasil
Organoleptis	Warna : Putih kekuningan Bau : Seperti coklat Bentuk : Padat	Warna : Putih kekuningan Bau : Seperti coklat Bentuk : Padat
Titik Leleh	31 – 34 ^o C	150 mg leleh pada suhu 35 ^o C

Lampiran 3. Hasil Bobot Suppositoria untuk Uji Bilangan Pengganti

Formula	Bobot Suppositoria (gram)		
	Bets I	Bets II	Bets III
Basis	2,4316	2,6051	2,3646
	2,4022	2,5086	2,3980
	2,4453	2,4222	2,4438
	2,5078	2,5714	2,3394
	2,4127	2,4567	2,3371
	2,4727	2,5241	2,4149
Jumlah	14,6723	15,0881	14,2978
FA	2,4180	2,3728	2,1904
	2,3710	2,3753	2,2306
	2,4319	2,4510	2,1893
	2,4101	2,4378	2,1711
	2,4176	2,4884	2,0952
	2,3025	2,4228	2,1724
Jumlah	14,3511	14,5481	13,049
FB	2,5698	2,5659	2,3927
	2,2754	2,3466	2,4866
	2,4919	2,5295	2,4824
	2,5966	2,5363	2,4540
	2,5855	2,5857	2,4466
	2,5147	2,5828	2,4473
Jumlah	15,0069	15,1468	14,7098
FC	2,4049	2,4645	2,3206
	2,4009	2,5080	2,4455
	2,5484	2,5877	2,3905
	2,4471	2,5074	2,3873
	2,3707	2,4300	2,3938
	2,4322	2,4642	2,4245
Jumlah	14,6087	14,9618	16,3623

Lampiran 4. Hasil Uji Bilangan Pengganti Suppositoria Ibuprofen

Formula	Bets	A	B	C	D	E	Bilangan Pengganti
FA	I	14,6723	5	12,3511	0,7176	13,6355	0,6908
	II	15,0081	5	14,5481	0,7274	13,8207	0,5739
	III	14,2978	5	13,0490	0,6524	12,3966	0,3432
						Rerata	0,5350
FB 1:1	I	14,6723	10	15,0069	1,5007	13,5062	1,2869
	II	15,0881	10	15,1468	1,5147	13,6321	1,0403
	III	14,2978	10	14,7096	1,4710	13,2386	1,3888
						Rerata	1,2387
FC 1:2	I	14,6723	15	14,6087	2,1913	12,4174	0,9718
	II	15,0881	15	14,9618	2,2443	12,7175	0,9467
	III	14,2978	15	12,3623	2,1543	12,2080	1,0309
							0,9831

Keterangan :

A = bobot 6 suppositoria tanpa bahan aktif

B = persentase (%) bahan aktif dalam 6 suppositoria

C = bobot 6 suppositoria dengan bahan aktif (b)

D = bobot bahan aktif yang terkandung dalam 6 suppositoria dengan bahan aktif

$$\left(\frac{b}{100} \times c\right)$$

E = bobot basis yang digunakan dalam 6 suppositoria dengan bahan aktif ($c - d$)

Lampiran 5. Penentuan Panjang Gelombang Maksimum Ibuprofen

Perhitungan panjang gelombang maksimum dilakukan dengan membuat larutan induk ibuprofen 100 ppm, kemudian diencerkan menjadi 7 ppm, 9 ppm, 12 ppm, 15 ppm dan 17 ppm. Didapatkan panjang gelombang maksimum dari ibuprofen adalah 221,60 nm.



Lampiran 6. Pembuatan Kurva Baku Ibuprofen

Perhitungan panjang gelombang maksimum dilakukan dengan membuat larutan induk ibuprofen 100 ppm, kemudian diencerkan menjadi 7 ppm, 9 ppm, 12 ppm, 15 ppm dan 17 ppm. Hasil pengukuran absorbansi kurva baku adalah sebagai berikut;

No	Konsentrasi (ppm)	Absorbansi
1	7,0	0,3310
2	9,0	0,4156
3	12,0	0,5134
4	15,0	0,6770
5	17,0	0,7237

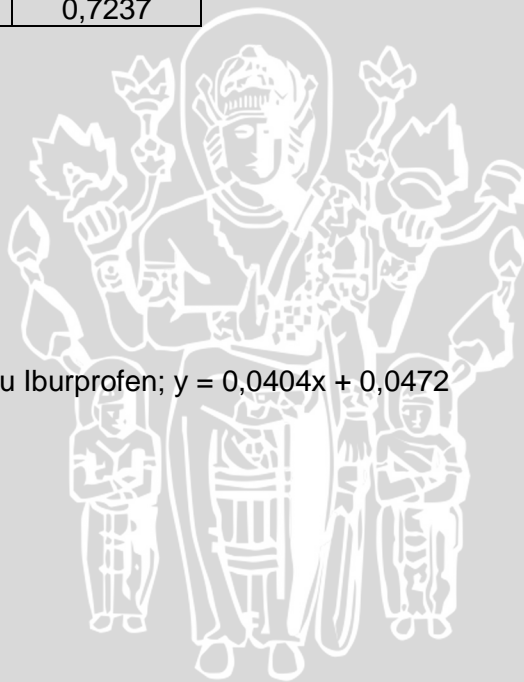
Sehingga didapatkan;

$$R = 0,9953$$

$$a = 0,0472$$

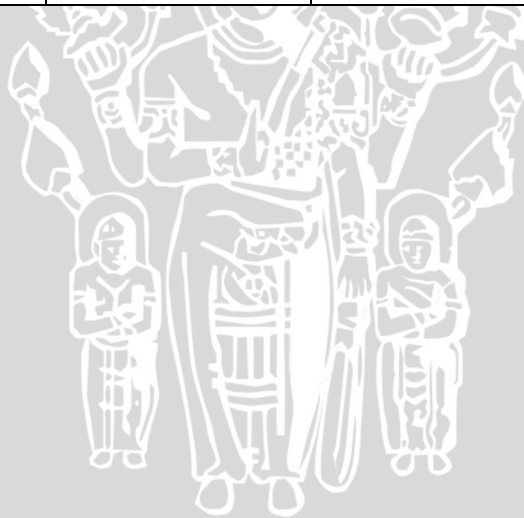
$$b = 0,0404$$

Persamaan Kurva Baku Ibuprofen; $y = 0,0404x + 0,0472$



Lampiran 7. Hasil Uji Organoleptis Suppositoria Ibuprofen

Formula	Organoleptis	Bets I	Bets II	Bets III
FA	Homogenitas Warna	Putih kekuningan dan homogen	Putih kekuningan dan homogen	Putih kekuningan dan homogen
	Bentuk	Runcing seperti torpedo	Runcing seperti torpedo	Runcing seperti torpedo
	Kondisi Permukaan	Halus dan tidak cacat	Halus dan tidak cacat	Halus dan tidak cacat
FB 1:1	Homogenitas Warna	Homogen	Homogen	Homogen
	Bentuk	Runcing seperti torpedo	Runcing seperti torpedo	Runcing seperti torpedo
	Kondisi Permukaan	Halus dan tidak cacat	Halus dan tidak cacat	Halus dan tidak cacat
FC 1:2	Homogenitas Warna	Homogen	Homogen	Homogen
	Bentuk	Runcing seperti torpedo	Runcing seperti torpedo	Runcing seperti torpedo
	Kondisi Permukaan	Halus dan tidak cacat	Halus dan tidak cacat	Halus dan tidak cacat



Lampiran 8. Hasil Uji Keseragaman Bobot Suppositoria Ibuprofen

FA						
No.	Bets I		Bets II		Bets III	
	Bobot (kg)	Persen Deviasi (%)	Bobot (kg)	Persen Deviasi (%)	Bobot (kg)	Persen Deviasi (%)
1.	2,3432	1,0828	2,5334	2,4801	2,5424	1,2365
2.	2,3057	0,5349	2,4919	0,8009	2,5504	0,9246
3.	2,2113	4,6072	2,5665	3,8186	2,5544	0,7692
4.	2,2612	2,4546	2,3922	3,2321	2,5905	0,6332
5.	2,4249	4,6072	2,3933	3,1876	2,5921	0,6954
6.	2,326	0,3408	2,5811	4,4092	2,6083	1,3247
7.	2,4146	4,1629	2,3863	3,4707	2,5764	0,0855
8.	2,3104	0,3322	2,4779	0,2346	2,6123	1,4801
9.	2,2544	2,7479	2,5351	2,5484	2,5469	1,0605
10.	2,3293	0,4832	2,3632	4,4052	2,5686	0,2175
Rerata	2,3181	2,1354	2,4721	2,8587	2,5742	0,8427

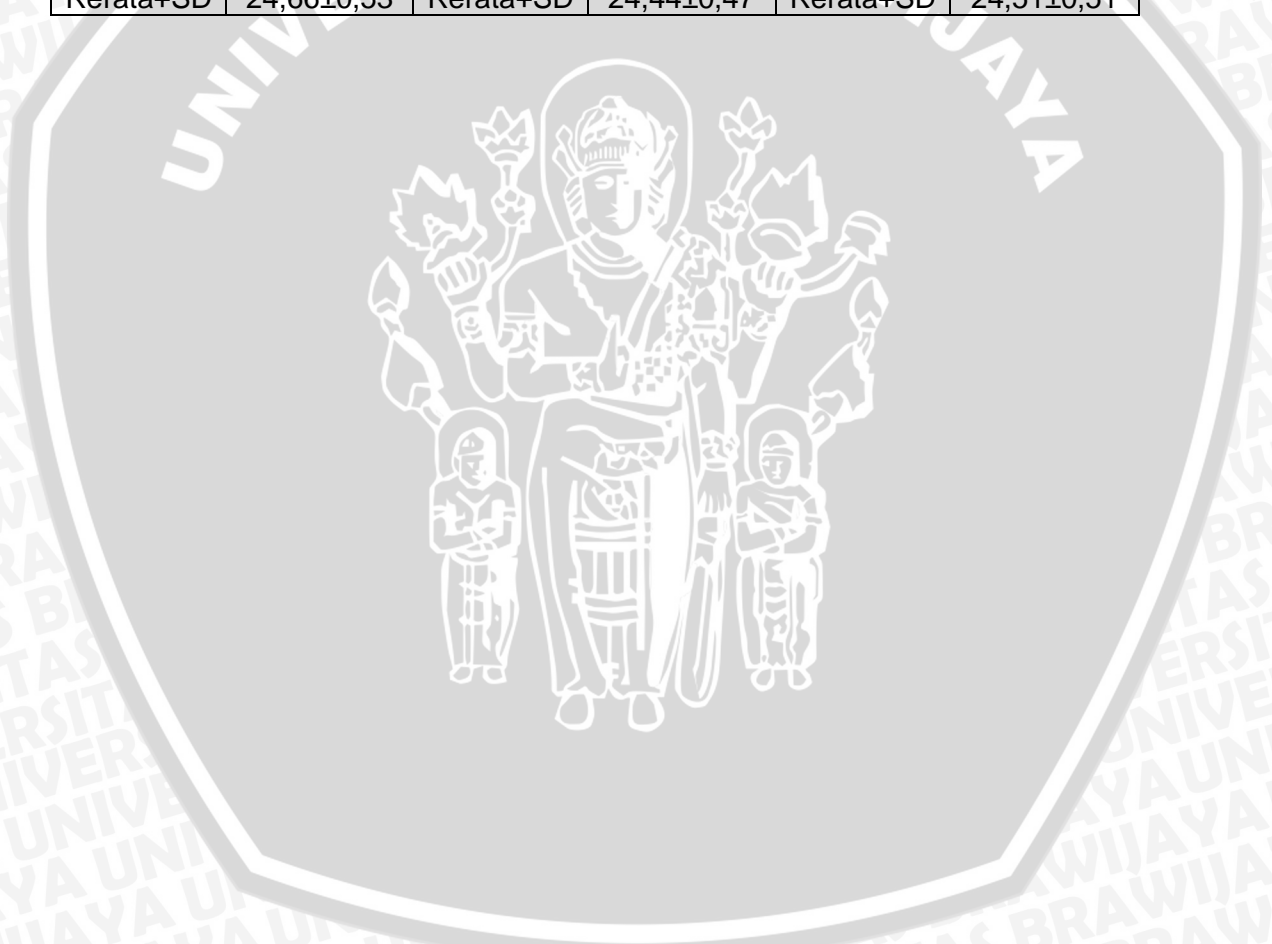
FB 1:1						
No.	Bets I		Bets II		Bets III	
	Bobot (kg)	Persen Deviasi (%)	Bobot (kg)	Persen Deviasi (%)	Bobot (kg)	Persen Deviasi (%)
1.	2,4656	0,2798	2,3820	1,8250	2,5030	0,6616
2.	2,5494	3,6889	2,3848	1,7104	2,4873	1,2859
3.	2,5078	1,9970	2,3291	4,0061	2,6062	3,4329
4.	2,5018	1,7530	2,5352	4,4883	2,3705	5,9213
5.	2,5597	4,1079	2,5686	5,8649	2,5589	1,5557
6.	2,3525	4,3194	2,3744	2,1391	2,5159	0,1508
7.	2,3754	3,3880	2,3178	4,4718	2,5762	2,2423
8.	2,5135	2,2288	2,5277	4,1792	2,5553	1,4129
9.	2,4031	2,2614	2,3658	2,4935	2,6497	5,1593
10.	2,3584	4,0794	2,4774	2,1061	2,3737	5,7943
Rerata	2,4587	2,8103	2,4263	3,3284	2,5197	2,7617

FC 1:2						
No.	Bets I		Bets II		Bets III	
	Bobot (kg)	Persen Deviasi (%)	Bobot (kg)	Persen Deviasi (%)	Bobot (kg)	Persen Deviasi (%)
1.	2,6511	0,7532	2,6637	1,8549	2,6439	1,3272
2.	2,6178	0,5131	2,6613	1,7628	2,6433	1,3030
3.	2,6115	0,7525	2,6549	1,5180	2,5632	1,7668
4.	2,6795	1,8318	2,6432	1,0707	2,6616	2,0044
5.	2,5927	1,4670	2,5505	2,4740	2,5334	2,9088
6.	2,5657	2,4931	2,5498	2,5008	2,6619	2,0159
7.	2,6904	2,2460	2,6525	1,4263	2,5827	1,0194
8.	2,6336	0,0874	2,5266	3,3879	2,5637	1,7476
9.	2,6591	1,0565	2,6071	0,3097	2,5973	0,4599
10.	2,6114	0,7563	2,6423	1,0362	2,6417	1,2417
Rerata	2,6313	1,1957	2,6152	1,7341	2,6093	1,5795



Lampiran 9. Hasil Uji Waktu Leleh Suppositoria Ibuprofen

FA		FB 1:1		FC 1:2	
Bets	Waktu (menit)	Bets	Waktu (menit)	Bets	Waktu (menit)
I	24,06	I	24,54	I	23,84
	24,06		24,01		24,52
	25,02		25,25		24,69
II	24,06	II	24,01	II	24,01
	25,02		24,01		25,05
	25,55		24,58		25,41
III	25,01	III	24,01	III	24,53
	24,57		24,99		24,01
	24,57		24,58		24,53
Rerata+SD	24,66±0,53	Rerata+SD	24,44±0,47	Rerata+SD	24,51±0,51



Lampiran 10. Hasil Uji Disolusi Suppositoria Ibuprofen

Hasil FA Bets I								
Sampel	Waktu (menit)	Absorbansi	FP	Konsentrasi Terukur (ppm)	FK	Konsentrasi Riil (ppm)	Jumlah Obat dalam Sediaan (mg)	Persen Terdisolusi Obat (%)
I	5	0,494	1	11,0561	0	11,0561	2,7640	2,2112
	10	0,2371	2,5	11,7460	0,4422	12,1882	3,0471	2,4376
	15	0,2815	3	17,3916	0,4698	17,8614	4,4654	3,5723
	30	0,3579	3	23,0637	0,6957	23,7594	5,9398	4,7519
	45	0,6088	3	41,0976	0,9225	42,0201	10,5050	8,4040
	60	0,46	4	41,4528	1,6439	43,0967	10,7742	8,6193
	90	0,5375	5	60,6630	1,6581	62,3211	15,5803	12,4642
	120	0,4398	7	68,0036	2,4265	70,4301	17,6075	14,0860
II	5	0,2494	1	5,0028	0	5,0028	1,2507	1,0006
	10	0,2715	2,5	13,8743	0,2001	14,0744	3,5186	2,8149
	15	0,2977	3	18,5943	0,5550	19,1493	4,7873	3,8299
	30	0,4734	3	31,6389	0,7438	32,3827	8,0957	6,4765
	45	0,5546	3	37,6674	1,2656	38,9330	9,7332	7,7866
	60	0,618	4	56,4996	1,5067	58,0063	14,5016	11,6013
	90	0,6233	5	71,2800	2,2600	73,5400	18,3850	14,7080
	120	0,5554	7	88,0292	2,8512	90,8804	22,7201	18,1761
III	5	0,2229	1	4,3469	0	4,3469	1,0867	0,8694
	10	0,2462	2,5	12,3090	0,1739	12,4829	3,1207	2,4966
	15	0,2974	3	18,5721	0,4924	19,0645	4,7661	3,8129
	30	0,4042	3	26,5011	0,7429	27,2440	6,8110	5,4488
	45	0,6162	3	42,2409	1,0600	43,3009	10,8252	8,6602
	60	0,5473	4	49,5008	1,6896	51,1904	12,7976	10,2381
	90	0,5139	5	57,7430	1,9800	59,7230	14,9308	11,9446
	120	0,4438	7	68,6966	2,3097	71,0063	17,7516	14,2013
IV	5	0,4578	1	10,1602	0	10,1602	2,5401	2,0320
	10	0,2885	2,5	14,9260	0,4064	15,3324	3,8331	3,0665
	15	0,2805	3	17,3172	0,5970	17,9142	4,4786	3,5828
	30	0,4234	3	27,9267	0,6927	28,6194	7,1548	5,7239
	45	0,7505	3	52,2120	1,1171	53,3291	13,3323	10,6658
	60	0,5999	4	54,7076	2,0885	56,7961	14,1990	11,3592
	90	0,6398	5	73,3220	2,1883	75,5103	18,8776	15,1021
	120	0,5554	7	88,0292	2,9329	90,9621	22,7405	18,1924
V	5	0,5962	1	13,5854	0	13,5854	3,3964	2,7171
	10	0,2722	2,5	13,9175	0,5434	14,4609	3,6152	2,8922
	15	0,2921	3	18,1785	0,5567	18,7352	4,6838	3,7470
	30	0,3845	3	25,0386	0,7271	25,7657	6,4414	5,1531
	45	0,6427	3	44,2083	1,0015	45,2098	11,3025	9,0420
	60	0,6179	4	56,4896	1,7683	58,2579	14,5645	11,6516
	90	0,5919	5	67,3945	2,2596	69,6541	17,4135	13,9308
	120	0,5095	7	80,0779	2,6958	82,7737	20,6934	16,5547
VI	5	0,4001	1	8,7323	0	8,7323	2,1831	1,7465
	10	0,2187	2,5	10,6075	0,3493	10,9568	2,7392	2,1914
	15	0,276	3	16,9830	0,4243	17,4073	4,3518	3,4815
	30	0,4432	3	29,3967	0,6793	30,0760	7,5190	6,0152
	45	0,6421	3	44,1639	1,1759	45,3398	11,3349	9,0680
	60	0,5216	4	46,9568	1,7666	48,7234	12,1808	9,7447
	90	0,5339	5	60,2180	1,8783	62,0963	15,5241	12,4193
	120	0,4355	7	67,2588	2,4087	69,6675	17,4169	13,9335

Hasil FA Bets II								
Sampel	Waktu (menit)	Absorbansi	FP	Konsentrasi Terukur (ppm)	FK	Konsentrasi Riil (ppm)	Jumlah Obat dalam Sediaan (mg)	Persen Terdisolusi Obat (%)
I	5	0,7435	1	17,2307	0	17,2307	4,3077	3,4461
	10	0,4482	2,5	24,8065	0,6892	25,4957	6,3739	5,0991
	15	0,3917	3	25,5732	0,9923	26,5655	6,6414	5,3131
	30	0,4489	3	29,82	1,0229	30,8429	7,7107	6,1686
	45	0,6106	3	41,8251	1,1928	43,0179	10,7545	8,6036
	60	0,5668	4	51,4312	1,6730	53,1042	13,2761	10,6208
	90	0,5301	5	59,7475	2,0572	61,8047	15,4512	12,3609
	120	0,5496	7	87,0247	2,3899	89,4146	22,3537	17,8829
II	5	0,548	1	12,3925	0	12,3925	3,0981	2,4785
	10	0,3654	2,5	19,68375	0,4957	20,1795	5,0449	4,0359
	15	0,4467	3	29,6565	0,7874	30,4439	7,6110	6,0888
	30	0,5067	3	34,1112	1,1863	35,2975	8,8244	7,0595
	45	0,617	3	42,3003	1,3644	43,6647	10,9162	8,7329
	60	0,5685	4	51,5992	1,6920	53,2912	13,3228	10,6582
	90	0,5425	5	61,282	2,0640	63,3460	15,8365	12,6692
	120	0,569	7	90,3854	2,4513	92,8367	23,2092	18,5673
III	5	0,4146	1	9,0911	0	9,0911	2,2728	1,8182
	10	0,351	2,5	18,793	0,3636	19,1566	4,7892	3,8313
	15	0,391	3	25,5213	0,7517	26,2730	6,5683	5,2546
	30	0,4472	3	29,694	1,0209	30,7149	7,6787	6,1430
	45	0,5861	3	40,0062	1,1878	41,1940	10,2985	8,2388
	60	0,5249	4	47,2832	1,6002	48,8834	12,2209	9,7767
	90	0,5402	5	60,9975	1,8913	62,8888	15,7222	12,5778
	120	0,5198	7	81,8622	2,4399	84,3021	21,0755	16,8604
IV	5	0,4354	1	9,6059	0	9,6059	2,4015	1,9212
	10	0,3048	2,5	15,9345	0,3842	16,3187	4,0797	3,2637
	15	0,3845	3	25,0386	0,6374	25,6760	6,4190	5,1352
	30	0,5117	3	34,4826	1,0015	35,4841	8,8710	7,0968
	45	0,5751	3	39,1896	1,3793	40,5689	10,1422	8,1138
	60	0,5379	4	48,57	1,5676	50,1376	12,5344	10,0275
	90	0,4561	5	50,591	1,9428	52,5338	13,1335	10,5068
	120	0,5303	7	83,6815	2,0236	85,7051	21,4263	17,1410
V	5	0,4522	1	10,0216	0	10,0216	2,5054	2,0043
	10	0,2957	2,5	15,3715	0,4009	15,7724	3,9431	3,1545
	15	0,3718	3	24,0957	0,6149	24,7106	6,1776	4,9421
	30	0,4882	3	32,7378	0,9638	33,7016	8,4254	6,7403
	45	0,4897	3	32,8491	1,3095	34,1586	8,5397	6,8317
	60	0,5404	4	48,8176	1,3140	50,1316	12,5329	10,0263
	90	0,5548	5	62,804	1,9527	64,7567	16,1892	12,9513
	120	0,541	7	85,5351	2,5122	88,0473	22,0118	17,6095
VI	5	0,4545	1	10,0786	0	10,0786	2,5197	2,0157
	10	0,3102	2,5	16,2685	0,4031	16,6716	4,1679	3,3343
	15	0,3299	3	20,985	0,6507	21,6357	5,4089	4,3271
	30	0,4974	3	33,4209	0,8394	34,2603	8,5651	6,8521
	45	0,5637	3	38,343	1,3368	39,6798	9,9200	7,9360
	60	0,5358	4	48,3624	1,5337	49,8961	12,4740	9,9792
	90	0,5256	5	59,1905	1,9345	61,1250	15,2812	12,2250
	120	0,5215	7	82,1569	2,3676	84,5245	21,1311	16,9049

Hasil FA Bets III

Sampel	Waktu (menit)	Absorbansi	FP	Konsentrasi Terukur (ppm)	FK	Konsentrasi Riil (ppm)	Jumlah Obat dalam Sediaan (mg)	Persen Terdisolusi Obat (%)
I	5	0,7435	1	17,2307	0	17,2307	4,3077	2,5458
	10	0,4482	2,5	24,8065	0,6892	25,4957	6,3739	3,2256
	15	0,3917	3	25,5732	0,9923	26,5655	6,6414	4,4987
	30	0,4489	3	29,82	1,0229	30,8429	7,7107	6,6883
	45	0,6106	3	41,8251	1,1928	43,0179	10,7545	7,6500
	60	0,5668	4	51,4312	1,6730	53,1042	13,2761	9,6849
	90	0,5301	5	59,7475	2,0572	61,8047	15,4512	11,0209
	120	0,5496	7	87,0247	2,3899	89,4146	22,3537	16,4207
II	5	0,548	1	12,3925	0	12,3925	3,0981	3,3486
	10	0,3654	2,5	19,68375	0,4957	20,1795	5,0449	4,4741
	15	0,4467	3	29,6565	0,7874	30,4439	7,6110	6,5474
	30	0,5067	3	34,1112	1,1863	35,2975	8,8244	9,0536
	45	0,617	3	42,3003	1,3644	43,6647	10,9162	10,5879
	60	0,5685	4	51,5992	1,6920	53,2912	13,3228	12,9942
	90	0,5425	5	61,282	2,0640	63,3460	15,8365	15,9028
	120	0,569	7	90,3854	2,4513	92,8367	23,2092	21,9153
III	5	0,4146	1	9,0911	0	9,0911	2,2728	3,0908
	10	0,351	2,5	18,793	0,3636	19,1566	4,7892	3,8228
	15	0,391	3	25,5213	0,7517	26,2730	6,5683	5,4155
	30	0,4472	3	29,694	1,0209	30,7149	7,6787	7,4888
	45	0,5861	3	40,0062	1,1878	41,1940	10,2985	8,4453
	60	0,5249	4	47,2832	1,6002	48,8834	12,2209	9,7175
	90	0,5402	5	60,9975	1,8913	62,8888	15,7222	11,7907
	120	0,5198	7	81,8622	2,4399	84,3021	21,0755	16,6038
IV	5	0,4354	1	9,6059	0	9,6059	2,4015	2,8433
	10	0,3048	2,5	15,9345	0,3842	16,3187	4,0797	4,0653
	15	0,3845	3	25,0386	0,6374	25,6760	6,4190	6,2052
	30	0,5117	3	34,4826	1,0015	35,4841	8,8710	8,2981
	45	0,5751	3	39,1896	1,3793	40,5689	10,1422	10,2419
	60	0,5379	4	48,57	1,5676	50,1376	12,5344	11,0216
	90	0,4561	5	50,591	1,9428	52,5338	13,1335	13,9287
	120	0,5303	7	83,6815	2,0236	85,7051	21,4263	19,5701
V	5	0,4522	1	10,0216	0	10,0216	2,5054	2,6735
	10	0,2957	2,5	15,3715	0,4009	15,7724	3,9431	3,9410
	15	0,3718	3	24,0957	0,6149	24,7106	6,1776	5,7937
	30	0,4882	3	32,7378	0,9638	33,7016	8,4254	8,5253
	45	0,4897	3	32,8491	1,3095	34,1586	8,5397	7,9635
	60	0,5404	4	48,8176	1,3140	50,1316	12,5329	11,9357
	90	0,5548	5	62,804	1,9527	64,7567	16,1892	13,6521
	120	0,541	7	85,5351	2,5122	88,0473	22,0118	18,8853
VI	5	0,4545	1	10,0786	0	10,0786	2,5197	3,0061
	10	0,3102	2,5	16,2685	0,4031	16,6716	4,1679	3,3381
	15	0,3299	3	20,985	0,6507	21,6357	5,4089	4,3317
	30	0,4974	3	33,4209	0,8394	34,2603	8,5651	7,1107
	45	0,5637	3	38,343	1,3368	39,6798	9,9200	9,3599
	60	0,5358	4	48,3624	1,5337	49,8961	12,4740	9,6893
	90	0,5256	5	59,1905	1,9345	61,1250	15,2812	11,1866
	120	0,5215	7	82,1569	2,3676	84,5245	21,1311	16,9574

Hasil FB 1:1 Bets I

Sampel	Waktu (menit)	Absorbansi	FP	Konsentrasi Terukur (ppm)	FK	Konsentrasi Riil (ppm)	Jumlah Obat dalam Sediaan (mg)	Persen Terdisolusi Obat (%)
I	5	0,3977	2	17,3458	0	17,3458	4,3365	3,4692
	10	0,2909	3	18,0894	0,6938	18,7832	4,6958	3,7566
	15	0,335	3	21,3636	0,7236	22,0872	5,5218	4,4174
	30	0,5261	3	35,5515	0,8545	36,4060	9,1015	7,2812
	45	0,2985	6	37,3074	1,4221	38,7295	9,6824	7,7459
	60	0,2892	10	58,318	1,4923	59,8103	14,9526	11,9621
	90	0,564	6	76,731	2,3327	79,0637	19,7659	15,8127
	120	0,5981	7	95,4268	3,0692	98,4960	24,6240	19,6992
II	5	0,393	2	17,1132	0	17,1132	4,2783	3,4226
	10	0,3689	3	23,8803	0,6845	24,5648	6,1412	4,9130
	15	0,4348	3	28,773	0,9552	29,7282	7,4321	5,9456
	30	0,5793	3	39,5013	1,1509	40,6522	10,1631	8,1304
	45	0,3294	6	41,8956	1,5801	43,4757	10,8689	8,6951
	60	0,318	10	67,005	1,6758	68,6808	17,1702	13,7362
	90	0,5178	6	69,8706	2,6802	72,5508	18,1377	14,5102
	120	0,6025	7	96,1891	2,7948	98,9839	24,7460	19,7968
III	5	0,5419	2	24,483	0	24,4830	6,1208	4,8966
	10	0,4677	3	31,2156	0,9793	32,1949	8,0487	6,4390
	15	0,5957	3	40,7187	1,2486	41,9673	10,4918	8,3935
	30	0,7973	3	55,6866	1,6287	57,3153	14,3288	11,4631
	45	0,4609	6	61,4214	2,2275	63,6489	15,9122	12,7298
	60	0,4024	10	87,892	2,4569	90,3489	22,5872	18,0698
	90	0,7484	6	104,1114	3,5157	107,6271	26,9068	21,5254
	120	0,6628	7	106,6352	4,1645	110,7997	27,6999	22,1599
IV	5	0,4681	2	20,8302	0	20,8302	5,2076	4,1660
	10	0,4788	3	32,0397	0,8332	32,8729	8,2182	6,5746
	15	0,5361	3	36,294	1,2816	37,5756	9,3939	7,5151
	30	0,7099	3	49,1976	1,4518	50,6494	12,6623	10,1299
	45	0,4313	6	57,0264	1,9679	58,9943	14,7486	11,7989
	60	0,3691	10	79,651	2,2811	81,9321	20,4830	16,3864
	90	0,7251	6	100,6518	3,1860	103,8378	25,9595	20,7676
	120	0,7271	7	117,7743	4,0261	121,8004	30,4501	24,3601
V	5	0,3892	2	16,925	0	16,9250	4,2313	3,3850
	10	0,3834	3	24,9567	0,6770	25,6337	6,4084	5,1267
	15	0,4369	3	28,929	0,9983	29,9273	7,4818	5,9855
	30	0,6186	3	42,2856	1,1572	43,4428	10,8607	8,6886
	45	0,3588	6	46,2612	1,6914	47,9526	11,9882	9,5905
	60	0,3193	10	67,326	1,8504	69,1764	17,2941	13,8353
	90	0,6273	6	86,13	2,6930	88,8230	22,2058	17,7646
	120	0,6413	7	102,9105	3,4452	106,3557	26,5889	21,2711
VI	5	0,5032	2	22,5674	0	22,5674	5,6419	4,5135
	10	0,4884	3	32,7525	0,9027	33,6552	8,4138	6,7310
	15	0,5895	3	40,2585	1,3101	41,5686	10,3922	8,3137
	30	0,796	3	55,5897	1,6103	57,2000	14,3000	11,4400
	45	0,4588	6	61,1094	2,2236	63,3330	15,8332	12,6666
	60	0,3987	10	86,976	2,4444	89,4204	22,3551	17,8841
	90	0,7682	6	107,052	3,4790	110,5310	27,6328	22,1062
	120	0,7221	7	116,9077	4,2821	121,1898	30,2974	24,2380

Hasil FB 1:1 Bets II

Sampel	Waktu (menit)	Absorbansi	FP	Konsentrasi Terukur (ppm)	FK	Konsentrasi Riil (ppm)	Jumlah Obat dalam Sediaan (mg)	Persen Terdisolusi Obat (%)
I	5	0,3786	2	16,4004	0	16,4004	4,1001	3,2801
	10	0,331	3	21,0666	0,6560	21,7226	5,4307	4,3445
	15	0,4108	3	26,9913	0,8427	27,8340	6,9585	5,5668
	30	0,5767	3	39,3084	1,0797	40,3881	10,0970	8,0776
	45	0,3388	6	43,2912	1,5723	44,8635	11,2159	8,9727
	60	0,3133	10	65,842	1,7316	67,5736	16,8934	13,5147
	90	0,6342	6	87,1548	2,6337	89,7885	22,4471	17,9577
	120	0,5746	7	91,3556	3,4862	94,8418	23,7104	18,9684
II	5	0,3394	2	14,4602	0	14,4602	3,6151	2,8920
	10	0,3184	3	20,1312	0,5784	20,7096	5,1774	4,1419
	15	0,3921	3	25,6029	0,8052	26,4081	6,6020	5,2816
	30	0,5836	3	39,8205	1,0241	40,8446	10,2112	8,1689
	45	0,3371	6	43,0386	1,5928	44,6314	11,1579	8,9263
	60	0,338	10	71,954	1,7215	73,6755	18,4189	14,7351
	90	0,6623	6	91,3272	2,8782	94,2054	23,5513	18,8411
	120	0,6574	7	105,6993	3,6531	109,3524	27,3381	21,8705
III	5	0,3163	2	13,3168	0	13,3168	3,3292	2,6634
	10	0,3501	3	22,4844	0,5327	23,0171	5,7543	4,6034
	15	0,4081	3	26,7909	0,8994	27,6903	6,9226	5,5381
	30	0,6324	3	43,4436	1,0716	44,5152	11,1288	8,9030
	45	0,4064	6	53,3292	1,7377	55,0669	13,7667	11,0134
	60	0,3663	10	78,958	2,1332	81,0912	20,2728	16,2182
	90	0,7122	6	98,7366	3,1583	101,8949	25,4737	20,3790
	120	0,7146	7	115,6085	3,9495	119,5580	29,8895	23,9116
IV	5	0,3835	2	16,643	0	16,6430	4,1608	3,3286
	10	0,3625	3	23,4051	0,6657	24,0708	6,0177	4,8142
	15	0,4699	3	31,3791	0,9362	32,3153	8,0788	6,4631
	30	0,6238	3	42,8052	1,2552	44,0604	11,0151	8,8121
	45	0,4158	6	54,7248	1,7122	56,4370	14,1093	11,2874
	60	0,3631	10	78,166	2,1890	80,3550	20,0887	16,0710
	90	0,7583	6	105,582	3,1266	108,7086	27,1772	21,7417
	120	0,7702	7	125,2405	4,2233	129,4638	32,3659	25,8928
V	5	0,3335	2	14,1682	0	14,1682	3,5421	2,8336
	10	0,2768	3	17,0424	0,5667	17,6091	4,4023	3,5218
	15	0,3464	3	22,2099	0,6817	22,8916	5,7229	4,5783
	30	0,4773	3	31,9284	0,8884	32,8168	8,2042	6,5634
	45	0,2864	6	35,5104	1,2771	36,7875	9,1969	7,3575
	60	0,2736	10	56,017	1,4204	57,4374	14,3594	11,4875
	90	0,5642	6	76,7604	2,2407	79,0011	19,7503	15,8002
	120	0,5662	7	89,9003	3,0704	92,9707	23,2427	18,5941
VI	5	0,3811	2	16,5242	0	16,5242	4,1311	3,3048
	10	0,3315	3	21,1038	0,6610	21,7648	5,4412	4,3530
	15	0,433	3	28,6395	0,8442	29,4837	7,3709	5,8967
	30	0,6222	3	42,6864	1,1456	43,8320	10,9580	8,7664
	45	0,3775	6	49,0374	1,7075	50,7449	12,6862	10,1490
	60	0,3831	10	83,116	1,9615	85,0775	21,2694	17,0155
	90	0,7108	6	98,529	3,3246	101,8536	25,4634	20,3707
	120	0,6807	7	109,7292	3,9412	113,6704	28,4176	22,7341

Hasil FB 1:1 Bets III

Sampel	Waktu (menit)	Absorbansi	FP	Konsentrasi Terukur (ppm)	FK	Konsentrasi Riil (ppm)	Jumlah Obat dalam Sediaan (mg)	Persen Terdisolusi Obat (%)
I	5	0,4045	2	17,6824	0	17,6824	4,4206	3,5365
	10	0,4156	3	27,3477	0,7073	28,0550	7,0137	5,6110
	15	0,5603	3	38,0907	1,0939	39,1846	9,7962	7,8369
	30	0,7608	3	52,9767	1,5236	54,5003	13,6251	10,9001
	45	0,4758	6	63,6342	2,1191	65,7533	16,4383	13,1507
	60	0,4017	10	87,719	2,5454	90,2644	22,5661	18,0529
	90	0,7872	6	109,8732	3,5088	113,3820	28,3455	22,6764
	120	0,7244	7	117,306	4,3949	121,7009	30,4252	24,3402
II	5	0,4003	2	17,4744	0	17,4744	4,3686	3,4949
	10	0,3946	3	25,7886	0,6990	26,4876	6,6219	5,2975
	15	0,517	3	34,8759	1,0315	35,9074	8,9769	7,1815
	30	0,6535	3	45,0102	1,3950	46,4052	11,6013	9,2810
	45	0,4974	6	66,8418	1,8004	68,6422	17,1606	13,7284
	60	0,3556	10	76,31	2,6737	78,9837	19,7459	15,7967
	90	0,6725	6	92,8416	3,0524	95,8940	23,9735	19,1788
	120	0,6519	7	104,7466	3,7137	108,4603	27,1151	21,6921
III	5	0,3078	2	12,896	0	12,8960	3,2240	2,5792
	10	0,3938	3	25,7292	0,5158	26,2450	6,5613	5,2490
	15	0,4933	3	33,1164	1,0292	34,1456	8,5364	6,8291
	30	0,65	3	44,7504	1,3247	46,0751	11,5188	9,2150
	45	0,496	6	66,6336	1,7900	68,4236	17,1059	13,6847
	60	0,3453	10	73,761	2,6653	76,4263	19,1066	15,2853
	90	0,6691	6	92,337	2,9504	95,2874	23,8219	19,0575
	120	0,6829	7	110,117	3,6935	113,8105	28,4526	22,7621
IV	5	0,3353	2	14,2572	0	14,2572	3,5643	2,8514
	10	0,3741	3	24,2664	0,5703	24,8367	6,2092	4,9673
	15	0,4909	3	32,9382	0,9707	33,9089	8,4772	6,7818
	30	0,7359	3	51,1278	1,3175	52,4453	13,1113	10,4891
	45	0,4154	6	54,6654	2,0451	56,7105	14,1776	11,3421
	60	0,3605	10	77,522	2,1866	79,7086	19,9272	15,9417
	90	0,7119	6	98,6922	3,1009	101,7931	25,4483	20,3586
	120	0,718	7	116,1979	3,9477	120,1456	30,0364	24,0291
V	5	0,3211	2	13,5544	0	13,5544	3,3886	2,7109
	10	0,3671	3	23,7468	0,5422	24,2890	6,0722	4,8578
	15	0,481	3	32,2032	0,9499	33,1531	8,2883	6,6306
	30	0,6521	3	44,9064	1,2881	46,1945	11,5486	9,2389
	45	0,374	6	48,5184	1,7963	50,3147	12,5787	10,0629
	60	0,3491	10	74,701	1,9407	76,6417	19,1604	15,3283
	90	0,6778	6	93,6288	2,9880	96,6168	24,1542	19,3234
	120	0,6855	7	110,5671	3,7452	114,3123	28,5781	22,8625
VI	5	0,3705	2	15,9994	0	15,9994	3,9999	3,1999
	10	0,3654	3	23,6205	0,6400	24,2605	6,0651	4,8521
	15	0,4813	3	32,2254	0,9448	33,1702	8,2926	6,6340
	30	0,6107	3	41,8326	1,2890	43,1216	10,7804	8,6243
	45	0,358	6	46,1424	1,6733	47,8157	11,9539	9,5631
	60	0,3709	10	80,096	1,8457	81,9417	20,4854	16,3883
	90	0,6494	6	89,4114	3,2038	92,6152	23,1538	18,5230
	120	0,6405	7	102,7719	3,5765	106,3484	26,5871	21,2697

Hasil FB 1:2 Bets I

Sampel	Waktu (menit)	Absorbansi	FP	Konsentrasi Terukur (ppm)	FK	Konsentrasi Riil (ppm)	Jumlah Obat dalam Sediaan (mg)	Persen Terdisolusi Obat (%)
I	5	0,3037	2	12,6932	0	12,6932	3,1733	2,5386
	10	0,2944	4	24,4656	0,5077	24,9733	6,2433	4,9947
	15	0,3548	5	38,056	0,9786	39,0346	9,7587	7,8069
	30	0,5439	5	61,455	1,5222	62,9772	15,7443	12,5954
	45	0,3646	9	70,6833	2,4582	73,1415	18,2854	14,6283
	60	0,3244	14	96,0232	2,8273	98,8505	24,7126	19,7701
	90	0,5963	8	108,7024	3,8409	112,5433	28,1358	22,5087
	120	0,5876	9	120,3525	4,3481	124,7006	31,1751	24,9401
II	5	0,3527	2	15,1184	0	15,1184	3,7796	3,0237
	10	0,3753	4	32,474	0,6047	33,0787	8,2697	6,6157
	15	0,4569	5	50,6895	1,2990	51,9885	12,9971	10,3977
	30	0,6629	5	76,18	2,0276	78,2076	19,5519	15,6415
	45	0,441	9	87,7005	3,0472	90,7477	22,6869	18,1495
	60	0,3658	14	110,3676	3,5080	113,8756	28,4689	22,7751
	90	0,6998	8	129,1936	4,4147	133,6083	33,4021	26,7217
	120	0,687	9	142,4916	5,1677	147,6593	36,9148	29,5319
III	5	0,4055	2	17,7318	0	17,7318	4,4330	3,5464
	10	0,404	4	35,3152	0,7093	36,0245	9,0061	7,2049
	15	0,4669	5	51,927	1,4126	53,3396	13,3349	10,6679
	30	0,6704	5	77,108	2,0771	79,1851	19,7963	15,8370
	45	0,4268	9	84,537	3,0843	87,6213	21,9053	17,5243
	60	0,3858	14	117,2976	3,3815	120,6791	30,1698	24,1358
	90	0,6992	8	129,0752	4,6919	133,7671	33,4418	26,7534
	120	0,6426	9	132,6033	5,1630	137,7663	34,4416	27,5533
IV	5	0,3709	2	16,0192	0	16,0192	4,0048	3,2038
	10	0,3761	4	32,5532	0,6408	33,1940	8,2985	6,6388
	15	0,4349	5	47,9675	1,3021	49,2696	12,3174	9,8539
	30	0,584	5	66,417	1,9187	68,3357	17,0839	13,6671
	45	0,3642	9	70,5942	2,6567	73,2509	18,3127	14,6502
	60	0,3419	14	102,0866	2,8238	104,9104	26,2276	20,9821
	90	0,6822	8	125,7096	4,0835	129,7931	32,4483	25,9586
	120	0,6088	9	125,0748	5,0284	130,1032	32,5258	26,0206
V	5	0,4005	2	17,4844	0	17,4844	4,3711	3,4969
	10	0,4203	4	36,9288	0,6994	37,6282	9,4070	7,5256
	15	0,5027	5	56,357	1,4772	57,8342	14,4585	11,5668
	30	0,7443	5	86,2525	2,2543	88,5068	22,1267	17,7014
	45	0,4262	9	84,4038	3,4501	87,8539	21,9635	17,5708
	60	0,396	14	120,8312	3,3762	124,2074	31,0518	24,8415
	90	0,3931	16	136,944	4,8332	141,7772	35,4443	28,3554
	120	0,7763	9	162,3825	5,4778	167,8603	41,9651	33,5721
VI	5	0,4028	2	17,5982	0	17,5982	4,3996	3,5196
	10	0,3882	4	33,7512	0,7039	34,4551	8,6138	6,8910
	15	0,4719	5	52,546	1,3500	53,8960	13,4740	10,7792
	30	0,6324	5	72,406	2,1018	74,5078	18,6270	14,9016
	45	0,3907	9	76,4964	2,8962	79,3926	19,8482	15,8785
	60	0,3742	14	113,2782	3,0599	116,3381	29,0845	23,2676
	90	0,7004	8	129,3128	4,5311	133,8439	33,4610	26,7688
	120	0,6493	9	134,0955	5,1725	139,2680	34,8170	27,8536

Hasil FB 1:2 Bets II

Sampel	Waktu (menit)	Absorbansi	FP	Konsentrasi Terukur (ppm)	FK	Konsentrasi Riil (ppm)	Jumlah Obat dalam Sediaan (mg)	Persen Terdisolusi Obat (%)
I	5	0,4669	2	20,7708	0	20,7708	5,1927	4,1542
	10	0,4364	4	38,5224	0,8308	39,3532	9,8383	7,8706
	15	0,4198	5	46,099	1,5409	47,6399	11,9100	9,5280
	30	0,7082	5	81,7855	1,8440	83,6295	20,9074	16,7259
	45	0,4266	9	84,4929	3,2714	87,7643	21,9411	17,5529
	60	0,3619	14	109,0166	3,3797	112,3963	28,0991	22,4793
	90	0,7071	8	130,6392	4,3607	134,9999	33,7500	27,0000
	120	0,7142	9	148,5504	5,2256	153,7760	38,4440	30,7552
II	5	0,4239	2	18,6426	0	18,6426	4,6607	3,7285
	10	0,4888	4	43,7096	0,7457	44,4553	11,1138	8,8911
	15	0,4625	5	51,383	1,7484	53,1314	13,2828	10,6263
	30	0,6304	5	72,1585	2,0553	74,2138	18,5535	14,8428
	45	0,4486	9	88,992	2,8863	91,8783	22,9696	18,3757
	60	0,314	14	92,421	3,5597	95,9807	23,9952	19,1961
	90	0,6315	8	115,6712	3,6968	119,3680	29,8420	23,8736
	120	0,6329	9	130,4424	4,6268	135,0692	33,7673	27,0138
III	5	0,4424	2	19,5582	0	19,5582	4,8896	3,9116
	10	0,3847	4	33,4048	0,7823	34,1871	8,5468	6,8374
	15	0,5267	5	59,327	1,3362	60,6632	15,1658	12,1326
	30	0,5518	5	62,4325	2,3731	64,8056	16,2014	12,9611
	45	0,4176	9	82,4886	2,4973	84,9859	21,2465	16,9972
	60	0,297	14	86,5312	3,2995	89,8307	22,4577	17,9661
	90	0,5561	8	100,7432	3,4612	104,2044	26,0511	20,8409
	120	0,5321	9	107,991	4,0297	112,0207	28,0052	22,4041
IV	5	0,2773	2	11,3864	0	11,3864	2,8466	2,2773
	10	0,235	4	18,5856	0,4555	19,0411	4,7603	3,8082
	15	0,4111	5	45,0225	0,7434	45,7659	11,4415	9,1532
	30	0,4144	5	45,431	1,8009	47,2319	11,8080	9,4464
	45	0,2466	9	44,4006	1,8172	46,2178	11,5545	9,2436
	60	0,2413	14	67,2322	1,7760	69,0082	17,2521	13,8016
	90	0,4732	8	84,3304	2,6893	87,0197	21,7549	17,4039
	120	0,462	9	92,3778	3,3732	95,7510	23,9378	19,1502
V	5	0,4404	2	19,4592	0	19,4592	4,8648	3,8918
	10	0,4341	4	38,2948	0,7784	39,0732	9,7683	7,8146
	15	0,5208	5	58,597	1,5318	60,1288	15,0322	12,0258
	30	0,704	5	81,266	2,3439	83,6099	20,9025	16,7220
	45	0,4147	9	81,8424	3,2506	85,0930	21,2733	17,0186
	60	0,3585	14	107,8378	3,2737	111,1115	27,7779	22,2223
	90	0,7079	8	130,7976	4,3135	135,1111	33,7778	27,0222
	120	0,7132	9	148,3281	5,2319	153,5600	38,3900	30,7120
VI	5	0,4108	2	17,9942	0	17,9942	4,4986	3,5988
	10	0,3369	4	28,6728	0,7198	29,3926	7,3481	5,8785
	15	0,2851	5	29,4315	1,1469	30,5784	7,6446	6,1157
	30	0,546	5	61,715	1,1773	62,8923	15,7231	12,5785
	45	0,3066	9	57,7647	2,4686	60,2333	15,0583	12,0467
	60	0,2908	14	84,3822	2,3106	86,6928	21,6732	17,3386
	90	0,5659	8	102,684	3,3753	106,0593	26,5148	21,2119
	120	0,5465	9	111,1986	4,1074	115,3060	28,8265	23,0612

Hasil FB 1:2 Bets III

Sampel	Waktu (menit)	Absorbansi	FP	Konsentrasi Terukur (ppm)	FK	Konsentrasi Riil (ppm)	Jumlah Obat dalam Sediaan (mg)	Persen Terdisolusi Obat (%)
I	5	0,5037	2	22,5924	0	22,5924	5,6481	4,5185
	10	0,3931	4	34,236	0,9037	35,1397	8,7849	7,0279
	15	0,4501	5	49,8485	1,3694	51,2179	12,8045	10,2436
	30	0,5017	5	56,2335	1,9939	58,2274	14,5569	11,6455
	45	0,427	9	84,5811	2,2493	86,8304	21,7076	17,3661
	60	0,3069	14	89,9612	3,3832	93,3444	23,3361	18,6689
	90	0,5611	8	101,7336	3,5984	105,3320	26,3330	21,0664
	120	0,5853	9	119,8404	4,0693	123,9097	30,9774	24,7819
II	5	0,5584	2	25,2998	0	25,2998	6,3250	5,0600
	10	0,4038	4	35,2952	1,0120	36,3072	9,0768	7,2614
	15	0,4046	5	44,218	1,4118	45,6298	11,4075	9,1260
	30	0,6151	5	70,2655	1,7687	72,0342	18,0086	14,4068
	45	0,4469	9	89,0136	2,8106	91,8242	22,9561	18,3648
	60	0,3235	14	95,7124	3,5605	99,2729	24,8182	19,8546
	90	0,6074	8	110,9	3,8285	114,7285	28,6821	22,9457
	120	0,6369	9	131,3334	4,4360	135,7694	33,9424	27,1539
III	5	0,494	2	22,1122	0	22,1122	5,5281	4,4224
	10	0,3233	4	27,3264	0,8845	28,2109	7,0527	5,6422
	15	0,3598	5	38,6745	1,0931	39,7676	9,9419	7,9535
	30	0,4746	5	52,88	1,5470	54,4270	13,6067	10,8854
	45	0,3495	9	67,32	2,1152	69,4352	17,3588	13,8870
	60	0,251	14	70,5936	2,6928	73,2864	18,3216	14,6573
	90	0,4978	8	89,2016	2,8237	92,0253	23,0063	18,4051
	120	0,5025	9	101,9997	3,5681	105,5678	26,3919	21,1136
IV	5	0,4641	2	20,6322	0	20,6322	5,1581	4,1264
	10	0,3674	4	31,692	0,8253	32,5173	8,1293	6,5035
	15	0,4134	5	45,307	1,2677	46,5747	11,6437	9,3149
	30	0,5172	5	57,347	1,8123	59,1593	14,7898	11,8319
	45	0,2988	9	56,2509	2,2939	58,5448	14,6362	11,7090
	60	0,2975	14	86,7034	2,2500	88,9534	22,2384	17,7907
	90	0,5808	8	105,6336	3,4681	109,1017	27,2754	21,8203
	120	0,59	9	120,8871	4,2253	125,1124	31,2781	25,0225
V	5	0,4517	2	20,0186	0	20,0186	5,0047	4,0037
	10	0,3716	4	32,1076	0,8007	32,9083	8,2271	6,5817
	15	0,4365	5	48,1655	1,2843	49,4498	12,3625	9,8900
	30	0,5513	5	57,421	1,9266	59,3476	14,8369	11,8695
	45	0,3092	9	58,3443	2,2968	60,6411	15,1603	12,1282
	60	0,3137	14	92,316	2,3338	94,6498	23,6624	18,9300
	90	0,5798	8	105,436	3,6926	109,1286	27,2822	21,8257
	120	0,6509	9	134,4519	4,2174	138,6693	34,6673	27,7339
VI	5	0,4224	2	18,5682	0	18,5682	4,6421	3,7136
	10	0,3106	4	26,0692	0,7427	26,8119	6,7030	5,3624
	15	0,3694	5	39,8625	1,0428	40,9053	10,2263	8,1811
	30	0,4651	5	51,259	1,5945	52,8535	13,2134	10,5707
	45	0,2601	9	49,4118	2,0504	51,4622	12,8655	10,2924
	60	0,2472	14	69,2762	1,9765	71,2527	17,8132	14,2505
	90	0,4716	8	84,0136	2,7710	86,7846	21,6962	17,3569
	120	0,5543	9	112,9356	3,3605	116,2961	29,0740	23,2592

Keterangan:

Abs : Nilai absorbansi terukur

FP : Faktor pengenceran yang digunakan

FK : Faktor koreksi yang digunakan

Lampiran 11. Hasil Perhitungan Nilai DE₃₀ Tiap Formula

FA			FB 1:1			FC 1:2		
Bets	Sampel	DE ₃₀ (%)	Bets	Sampel	DE ₃₀ (%)	Bets	Sampel	DE ₃₀ (%)
I	1	3,1535	I	1	4,4971	I	1	7,0067
	2	3,5317		2	5,4038		2	8,9828
	3	3,1942		3	7,5529		3	9,3071
	4	3,4750		4	6,8276		4	8,3419
	5	3,4722		5	5,5859		5	10,1180
	6	3,3206		6	7,5053		6	9,0536
II	1	4,7374	II	1	5,1458	II	1	9,3616
	2	4,8802		2	4,9751		2	9,3560
	3	4,2289		3	5,2829		3	9,0760
	4	4,3501		4	5,7145		4	6,4269
	5	4,1922		5	4,2262		5	10,1402
	6	4,0471		6	5,4335		6	6,7627
III	1	4,0312	III	1	6,8619	III	1	8,2503
	2	5,6057		2	6,1795		2	8,6973
	3	4,7071		3	5,8848		3	7,0500
	4	5,1623		4	6,1860		4	7,8346
	5	5,0396		5	5,7814		5	8,0283
	6	4,1739		6	5,7094		6	6,8824
Rerata+SD		4,1835± 0,7399	Rerata+SD		5,8196± 0,6010	Rerata+SD		8,3709± 0,5219

Lampiran 12. Hasil Uji Statistik Persen Terdisolusi Suppositoria Ibuprofen

Uji Normalitas

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
PersenTerdisolusi	,190	9	,200 [*]	,947	9	,661

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Oneway

Descriptives

PersenTerdisolusi									
	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum	
					Lower Bound	Upper Bound			
1	3	6,710800	1,1333348	,6543312	3,895440	9,526160	5,5949	7,8608	
2	3	9,120700	,7858589	,4537159	7,168518	11,072882	8,2152	9,6247	
3	3	13,601667	1,6125390	,9309998	9,595898	17,607436	11,8683	15,0573	
Total	9	9,811056	3,2088809	1,0696270	7,344491	12,277620	5,5949	15,0573	

Test of Homogeneity of Variances

PersenTerdisolusi				
Levene Statistic	df1	df2	Sig.	
,676	2	6	,544	

ANOVA

PersenTerdisolusi					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	73,371	2	36,685	24,444	,001
Within Groups	9,005	6	1,501		
Total	82,375	8			



Post Hoc Tests

Multiple Comparisons

Dependent Variable: PersenTerdisolusi

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
1	2	-2,4099000	1,0002560	,115	-5,478960	,659160
	3	-6,8908667*	1,0002560	,001	-9,959927	-3,821807
2	1	2,4099000	1,0002560	,115	-,659160	5,478960
	3	-4,4809667*	1,0002560	,010	-7,550027	-1,411907
3	1	6,8908667*	1,0002560	,001	3,821807	9,959927
	2	4,4809667*	1,0002560	,010	1,411907	7,550027

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

PersenTerdisolusi

Tukey HSD^a

Formula	N	Subset for alpha = 0.05	
		1	2
1	3	6,710800	
2	3	9,120700	
3	3		13,601667
Sig.		,115	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Lampiran 13. Hasil Uji Statistik Data DE₃₀ Suppositoria Ibuprofen

Uji Normalitas

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
DE30	.145	9	.200*	.944	9	.621

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Oneway

Descriptives

DE30

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
A	3	4.18349	.739912	.427189	2.34544	6.02153	3.358	4.787
B	3	5.81964	.600973	.346972	4.32674	7.31254	5.130	6.229
C	3	8.37091	.521966	.301357	7.07427	9.66754	7.790	8.802
Total	9	6.12468	1.906654	.635551	4.65909	7.59026	3.358	8.802

Test of Homogeneity of Variances

DE30

Levene Statistic	df1	df2	Sig.
.327	2	6	.733

ANOVA

DE30

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	26.720	2	13.360	33.935	.001
Within Groups	2.362	6	.394		
Total	29.083	8			



Post Hoc Tests

Multiple Comparisons

Dependent Variable: DE30

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
A	B	-1.63615*	.512312	.043	-3.20807	-.06424
	C	-4.18742*	.512312	.000	-5.75934	-2.61551
B	A	1.63615*	.512312	.043	.06424	3.20807
	C	-2.55127*	.512312	.006	-4.12318	-.97935
C	A	4.18742*	.512312	.000	2.61551	5.75934
	B	2.55127*	.512312	.006	.97935	4.12318

*. The mean difference is significant at the .05 level.

Homogeneous Subsets

DE30

Tukey HSD^a

Formula	N	Subset for alpha = .05		
		1	2	3
A	3	4.18349		
B	3		5.81964	
C	3			8.37091
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.