LAMPIRAN

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Lampiran 1. *Certificate of Analysis* Asam Fenofibrat

TEL: 86-311-66600578
FAX: 86-311-66600576
Shijiazhuang Aopharm Medical Technology Co., Ltd.

Certificate of Analysis

Product	Fenofibric acid		
CAS	42017-89-0	Batch No.	20141014
Mfg. Date	2014-10-14	Exp.Date	2016-10-13
Item	Specification		Results
Apperance	White or almost White crystalline powder		Conforms
Identification	Should comply with the IR spectrum		Conforms
Appearance of solution	Meet the requirement		Conforms
Loss on drying	≤0.5%		0.26%
Melting point	179℃~184℃		182.3℃~182.6℃
Total impurity	≤0.5%		0.11%
4-Chloro-4'-hydroxybenzophenone	≤0.1%		0.038%
Other each impurity	≤0.1%		0.041%
Assay	98.0 ~ 102.0 %		99.8%
Residue on ignition	≤0.1%		0.084%
Conclusion	It conforms with the standard		

Check: Song Yun Inspector: Han Fei

Lampiran 2. ***Certificate of Analysis Sodium Starch Glycolate***

BB-13/1053-

EXPLOSOL

SODIUM STARCH GLYCOLATE

BLANVER

CERTIFICATE OF ANALYSIS

TYPE : A

LOT : 125019600

ANALYSIS	SPECIFICATIONS	RESULTS	METHODS
Appearance	White, fine powder	Pass	TQ-11-411
Odor	Odorless	Pass	TQ-11-411
Loss on drying (%)	Not more than 10.0	5.2	USP/NF/EP
pH	5.8 to 7.8	6.7	USP NF EP
Identification A	Positive	Pass	USP NF EP
Identification B	Positive	Pass	USP NF EP
Identification C	Positive	Pass	USP NF EP
Identification D	Positive	Pass	USP NF EP
Iron (ppm)	Not more than 20	Pass	USP NF EP
Heavy metals (ppm)	Not more than 20	Pass	USP NF EP
Sodium chloride (%)	Not more than 7.0	4.9	USP NF EP
Sodium content (%)	2.8 to 4.2	3.3	USP NF EP
Sodium glycolate (%)	Not more than 3.0	0.4	USP NF EP
Retained 200 mesh (74 microns) (%)	Not more than 10.0	2.5	TQ 11-411

This product is manufactured in accordance with the Good Manufacturing Practices and complies USP35 NF30 EP 7ed. specifications.

Country of Origin: Brazil
Manufacturing Site: Blanver, Itapevi Unit - Brazil

Conforms with Blanver Microbiological Specification: Total Aerobic Microbial Count - NMT 100 cfu per gram, Total Yeast Count - NMT 10 cfu per gram,Total Mold Count - NMT 10 cfu per gram, absence in a 10 gram sample - Staphylococcus aureus, Pseudomonas aeruginosa, Escherichia coli, Salmonella species - USP <61> and <62>.

This product meets the requirement for Residual Solvents - USP <467> / EP <5.4>. Only ethanol (class 3 solvent) is used in the manufacturing process with residual below 0.5%.

Technical information:
- Botanical source: Potato Starch.
- Cross-linking agent: none

Manufacturing date : 30/oct/2012

Expiration date : 30/oct/2017

Issuing date : 10/dec/2012

Mirna D. Grego
Quality Control

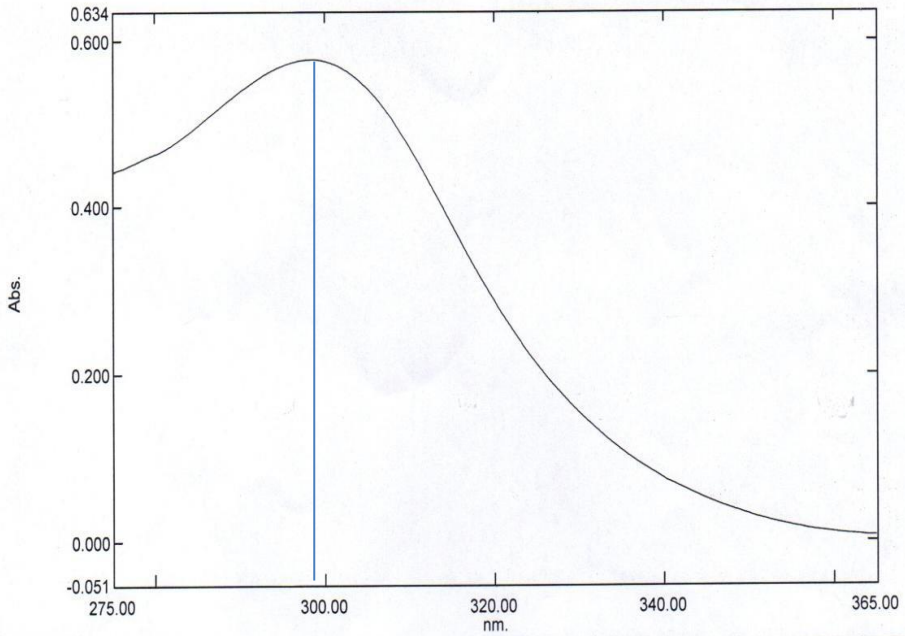
BLANVER FARMOQUIMICA LTDA
Rua Dr. Jose Alexandre Crespigni, 715 - CEP 06651-125 - Itapevi SP - Fax: 55 11 4143-2422 - E-mail: blanver@blanver.com

Lampiran 3. Penentuan Panjang Gelombang Maksimal Asam Fenofibrat

Spectrum Peak Pick Report

03/30/2015 12:36:33 PM

Data Set: File_130115_155953_122943 - RawData



No.	P/V	Wavelength	Abs.	Description
1	↑	298.70	0.577	

[Measurement Properties]
Wavelength Range (nm.): 275.00 to 365.00
Scan Speed: Medium
Sampling Interval: 0.1
Auto Sampling Interval: Disabled
Scan Mode: Auto

[Instrument Properties]
Instrument Type: UV-1800 Series
Measuring Mode: Absorbance
Slit Width: 1.0 nm
Light Source Change Wavelength: 340.0 nm
S/R Exchange: Normal

[Attachment Properties]
Attachment: 6-Cell
Number of cells: 6

[Operation]
Threshold: 0.0010000
Points: 4
InterPolate: Disabled
Average: Disabled

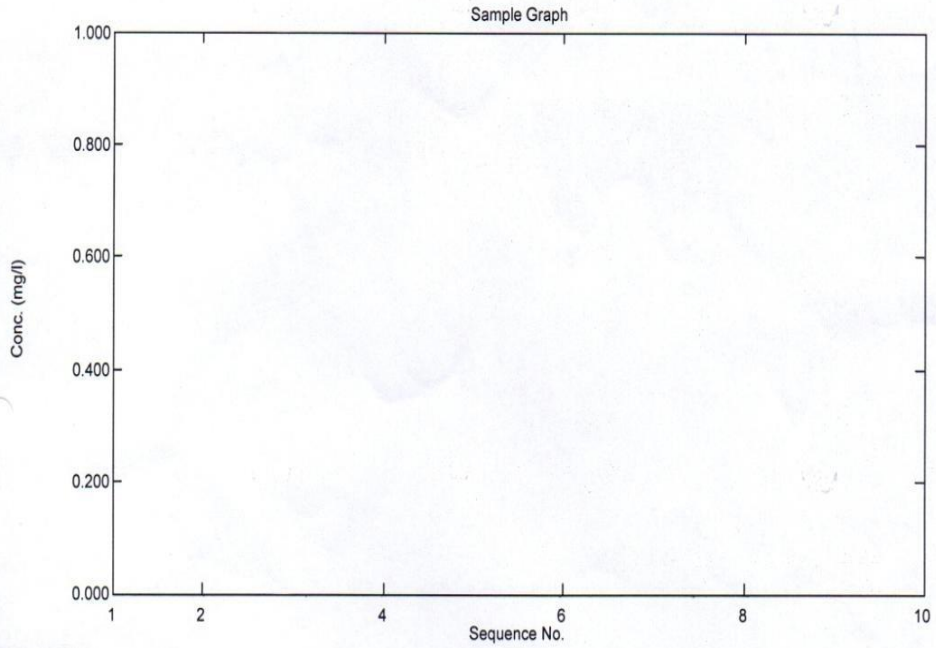
[Sample Preparation Properties]
Weight:
Volume:
Dilution:
Path Length:
Additional Information:

Lampiran 4. Kurva Baku Asam Fenofibrat

Sample Table Report

03/30/2015 12:51:23 PM

File Name: C:\File_150330_123838.pho



Sample Table

	Sample ID	Type	Ex	Conc	WL298.7	Comments
1	2ppm	Unknown		*****	0.125	
2	4ppm	Unknown		*****	0.242	
3	6ppm	Unknown		*****	0.368	
4	8ppm	Unknown		*****	0.473	
5	10ppm	Unknown		*****	0.580	
6	12ppm	Unknown		*****	0.701	
7	14ppm	Unknown		*****	0.812	

Lampiran 5. Perhitungan Kandungan Zat Aktif Sistem Dispersi Padat Permukaan Asam Fenofibrat.

1. DPP21

Rep	Penimbangan (mg)	Abs	Pengenceran	Kadar (mg)	Kadar sesungguhnya (mg)	% kandungan zat aktif
1	150,00	0,582	100	101,5167743	100	101,5167743
2	150,00	0,588	100	102,5532944	100	102,5532944
3	150,00	0,515	100	89,94230038	100	89,94230038
Rata-rata				98,00412305		98,00412305
SD						7,000952217

2. DPP11

Rep	Penimbangan (mg)	Abs	Pengenceran	Kadar (mg)	Kadar sesungguhnya (mg)	% kandungan zat aktif
1	100,00	0,590	50	50,38053097	50	100,7610619
2	100,00	0,544	50	46,30973451	50	92,61946903
3	100,00	0,569	50	48,52212389	50	97,04424779
Rata-rata				48,40412979		96,80825959
SD						4,07592341

3. DPP12

Rep	Penimbangan (mg)	Abs	Pengenceran	Kadar (mg)	Kadar sesungguhnya (mg)	% kandungan zat aktif
1	103,7	0,482	40	32,65840708	34,56666667	94,47948046
2	100,2	0,464	40	31,3840708	33,4	93,96428382
3	100,5	0,512	40	34,78230088	33,5	103,8277638
Rata-rata				32,94159292		97,42384271
SD						5,551937614

Lampiran 6. Perhitungan Kandungan Zat Aktif Campuran Fisik Asam Fenofibrat

1. CF21

Rep	Penimbangan (mg)	Abs	Pengenceran	Kadar (mg)	Kadar sesungguhnya (mg)	% kandungan zat aktif
1	100,00	0,712	50	61,17699115	66,66666667	91,76548673
2	99,9	0,721	50	61,97345133	66,6	93,05323022
3	99,9	0,708	50	60,82300885	66,6	91,32583911
Rata-rata				61,32448378		92,04818535
SD						0,897724287

2. CF11

Rep	Penimbangan (mg)	Abs	Pengenceran	Kadar (mg)	Kadar sesungguhnya (mg)	% kandungan zat aktif
1	99,9	0,533	50	45,33628319	49,95	90,7633297
2	99,8	0,507	50	43,03539823	49,9	86,24328303
3	100,0	0,673	50	57,72566372	50,0	115,4513274
Rata-rata				48,69911504		97,48598005
SD						15,72173608

3. CF12

Rep	Penimbangan (mg)	Abs	Pengenceran	Kadar (mg)	Kadar sesungguhnya (mg)	% kandungan zat aktif
1	99,9	0,493	40	33,43716814	33,3	100,4119163
2	100,0	0,464	40	31,3840708	33,33333333	94,15221239
3	99,9	0,601	40	41,08318584	33,3	123,3729305
Rata-rata				35,30147493		105,9790197
SD						15,38528749

Lampiran 7. Perhitungan Hasil Uji Disolusi Dispersi Padat Permukaan Asam Fenofibrat.

1. DPP21
   a. Replikasi 1

Menit ke	Abs	Pengen ceran	Kadar (mg/ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut	Luas A (mg)	Luas A+B (mg.menit)	DE_{60} (%)
5	0,049		0,000500885	0,45079646		0,45079646	0,43946851	1,098671264	3834,711896	63,91186494
15	0,484	10	0,082	73,8	0,002504425	73,80250442	71,9479392	361,9370387		
30	0,517	10	0,087840708	79,05663717	0,412504425	79,46914159	77,4721809	1120,650901		
45	0,523	10	0,088902655	80,01238938	0,851707965	80,86409735	78,8320831	1172,28198		
60	0,517	10	0,087840708	79,05663717	1,296221239	80,35285841	78,333691	1178,743306		

Penimbangan : 157 mg

   b. Replikasi 2

Menit ke	Abs	Pengen ceran	Kadar (mg/ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah Koreksi	% Terlarut	Luas A (mg)	Luas A+B (mg.menit)	DE_{60} (%)
5	0,093		0,001279646	1,151681416		1,151681416	1,11563514	2,789087844	3987,375265	66,45625442
15	0,338	10	0,056159292	50,54336283	0,00639823	50,54976106	48,9676128	250,4162396		
30	0,595	10	0,101646018	91,48141593	0,28719469	91,76861062	88,8963607	1033,979801		
45	0,597	10	0,102	91,8	0,795424779	92,59542478	89,6972965	1339,452429		
60	0,607	10	0,103769912	93,39292035	1,305424779	94,69834513	91,7343979	1360,737708		

Penimbangan : 158 mg

c. Replikasi 3

Menit ke	Abs	Pengen ceran	Kadar (mg/ml)	Jumlah Terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut	Luas A (mg)	Luas A+B (mg.menit)	DE_{60} (%)
5	0,231		0,003722124	3,349911504		3,349911504	3,2450632	8,112658001	4272,893506	71,21489177
15	0,519	10	0,08819469	79,37522124	0,018610619	79,39383186	76,908898	400,7698059		
30	0,580	10	0,09899115	89,0920354	0,459584071	89,55161947	86,7487587	1227,432425		
45	0,589	10	0,100584071	90,52566372	0,954539823	91,48020354	88,6169804	1315,243043		
60	0,579	10	0,098814159	88,93274336	1,457460177	90,39020354	87,5610961	1321,335574		

Penimbangan : 158 mg

2. DPP11
   a. Replikasi 1

Menit ke	Abs	Pengen ceran	Kadar (mg/ml)	Jumlah Terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut	Luas A (mg)	Luas A+B (mg.menit)	DE_{60} (%)
5	0,179		0,00280177	2,52159292		2,52159292	2,48069439	6,201735981	4150,851231	69,18085386
15	0,282	10	0,046247788	41,62300885	0,01400885	41,6370177	40,9616935	217,2119394		
30	0,693	10	0,11899115	107,0920354	0,245247788	107,3372832	105,596345	1099,18529		
45	0,528	10	0,089787611	80,80884956	0,84020354	81,6490531	80,3247608	1394,408295		
60	0,720	10	0,123769912	111,3929204	1,289141593	112,6820619	110,854435	1433,843971		

Penimbangan : 210 mg

b. Replikasi 2

Menit ke	Abs	Pengen ceran	Kadar (mg/ml)	Jumlah Terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut	Luas A (mg)	Luas A+B (mg.menit)	DE_{60} (%)
5	0,160		0,002465487	2,218938053		2,218938053	2,18294838	5,457370955	3891,207134	64,85345223
15	0,461	10	0,077929204	70,13628319	0,012327434	70,14861062	69,0108477	355,9689804		
30	0,441	10	0,074389381	66,95044248	0,401973451	67,35241593	66,2600054	1014,531398		
45	0,519	10	0,08819469	79,37522124	0,773920354	80,14914159	78,8491768	1088,318867		
60	0,724	10	0,124477876	112,0300885	1,214893805	113,2449823	111,408225	1426,930517		

Penimbangan : 210 mg

c. Replikasi 3

Menit ke	Abs	Pengen ceran	Kadar (mg/ml)	Jumlah Terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah Koreksi	% Terlarut	Luas A (mg)	Luas A+B (mg.menit)	DE_{60} (%)
5	0,122		0,00179292	1,613628319		1,613628319	1,59505185	3,987629615	3838,724212	63,97873687
15	0,291	10	0,047840708	43,05663717	0,008964602	43,06560177	42,5698203	220,8243609		
30	0,544	10	0,092619469	83,35752212	0,248168142	83,60569027	82,6432017	939,0976652		
45	0,532	10	0,090495575	81,4460177	0,711265487	82,15728319	81,211469	1228,91003		
60	0,722	10	0,124123894	111,7115044	1,163743363	112,8752478	111,575801	1445,904526		

Penimbangan : 209 mg

3. DPP12

a. Replikasi 1

Menit ke	Abs	Pengen ceran	Kadar (mg/ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut	Luas A (mg)	Luas A+B (mg.menit)	DE_{60} (%)
5	0,156		0,00239469	2,155221239		2,155221239	2,11357766	5,283944143	2656,936412	44,28227354
15	0,244	5	0,019761062	17,78495575	0,011973451	17,7969292	17,4530537	97,83315658		
30	0,305	10	0,050318584	45,28672566	0,110778761	45,39750442	44,5203255	464,8003436		
45	0,438	10	0,073858407	66,47256637	0,362371681	66,83493805	65,5435411	825,4789991		
60	0,675	10	0,11580531	104,2247788	0,731663717	104,9564425	102,928455	1263,539969		

Penimbangan : 314 mg

b. Replikasi 2

Menit ke	Abs	Pengen ceran	Kadar (mg/ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah Koreksi	% Terlarut	Luas A (mg)	Luas A+B (mg.menit)	DE_{60} (%)
5	0,233		0,003757522	3,381769912		3,381769912	3,30589839	8,264745979	3042,148231	50,70247052
15	0,122	10	0,017929204	16,13628319	0,018787611	16,1550708	15,7926246	95,49261476		
30	0,366	10	0,061115044	55,00353982	0,108433628	55,11197345	53,8755117	522,5110219		
45	0,545	10	0,09279646	83,51681416	0,41400885	83,93082301	82,0477975	1019,424819		
60	0,684	10	0,11739823	105,6584071	0,87799115	106,5363982	104,146207	1396,45503		

Penimbangan : 315 mg

c. Replikasi 3

Menit ke	Abs	Pengen ceran	Kadar (mg/ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah Koreksi	% Terlarut	Luas A (mg)	Luas A+B (mg.menit)	DE_{60} (%)
5	0,204		0,003244248	2,919823009		2,919823009	2,85431547	7,135788686	2069,924057	34,49873428
15	0,196	5	0,015513274	13,9619469	0,016221239	13,97816814	13,6645617	82,59438582		
30	0,147	10	0,022353982	20,11858407	0,093787611	20,21237168	19,7588981	250,6759483		
45	0,423	10	0,07120354	64,08318584	0,205557522	64,28874336	62,8463967	619,5397106		
60	0,564	10	0,096159292	86,54336283	0,561575221	87,10493805	85,1506998	1109,978224		

Penimbangan : 315 mg

Harga C_{45} disolusi dispersi padat permukaan asam fenofibrat

Kode	C_{45} (%)			X ±SD
	1	2	3	
DPP21	78,8320831	89,6972965	88,6169804	85,71545334±5,985596042
DPP11	80,3247608	78,8491768	81,211469	80,12846889±1,193316375
DPP12	65,5435411	82,0477975	62,8463967	70,14591173±10,39518206

Harga DE_{60} disolusi dispersi padat permukaan asam fenofibrat.

Kode	DE_{60} (%)			X ±SD
	1	2	3	
DPP21	63,91186494	66,45625442	71,21489177	67,19433704±3,707037188
DPP11	69,18085386	64,85345223	63,97873687	66,00434765±2,785484786
DPP12	44,28227354	50,70247052	34,49873428	43,16115945±8,159836982

Lampiran 8. Perhitungan Hasil Uji Disolusi Campuran Fisik Asam Fenofibrat

1. CF21
   a. Replikasi 1

Menit ke	Abs	Pengen ceran	Kadar (mg/ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut	Luas A (mg)	Luas A+B (mg.menit)	DE_{60} (%)
5	0,105		0,001492035	1,342831858		1,342831858	1,384970673	3,462426682	4019,197967	66,98663278
15	0,571	5	0,048699115	43,82920354	0,007460177	43,83666372	45,21228273	232,986267		
30	0,501	10	0,08500885	76,5079646	0,250955752	76,75892035	79,16765818	932,8495568		
45	0,630	10	0,107840708	97,05663717	0,676	97,73263717	100,799542	1349,754001		
60	0,617	10	0,105539823	94,98584071	1,21520354	96,20104425	99,21988679	1500,145716		

Penimbangan : 158 mg

   b. Replikasi 2

Menit ke	Abs	Pengen ceran	Kadar (mg/ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut	Luas A (mg)	Luas A+B (mg.menit)	DE_{60} (%)
5	0,498		0,008447788	7,60300885		7,60300885	7,841595517	19,60398879	4243,446227	70,72410379
15	0,348	10	0,057929204	52,13628319	0,042238938	52,17852212	53,81591331	308,2875442		
30	0,569	10	0,097044248	87,33982301	0,331884956	87,67170796	90,42289517	1081,791064		
45	0,583	10	0,099522124	89,5699115	0,817106195	90,3870177	93,22341284	1377,34731		
60	0,627	10	0,107309735	96,57876106	1,314716814	97,89347788	100,954299	1456,416321		

Penimbangan : 158 mg

c. Replikasi 3

Menit ke	Abs	Pengen ceran	Kadar (mg/ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut	Luas A (mg)	Luas A+B (mg.menit)	DE_{60} (%)
5	0,138		0,002076106	1,868495575		1,868495575	1,927130011	4,817825027	3424,222931	57,07038219
15	0,336	5	0,027902655	25,11238938	0,010380531	25,12276991	25,91113647	139,1913324		
30	0,802	5	0,069141593	62,22743363	0,149893805	62,37732743	64,33476283	676,8442448		
45	0,559	10	0,095274336	85,74690265	0,49560177	86,24250442	88,94884242	1149,627039		
60	0,653	10	0,111911504	100,720354	0,971973451	101,6923274	104,8834895	1453,742489		

Penimbangan : 158 mg

2. CF11

a. Replikasi 1

Menit ke	Abs	Pengen ceran	Kadar (mg/ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut	Luas A (mg)	Luas A+B (mg.menit)	DE_{60} (%)
5	0,515		0,008748673	7,87380531		7,87380531	7,692246819	19,23061705	4131,558686	68,85931143
15	0,443	10	0,074743363	67,26902655	0,043743363	67,31276991	65,76063541	367,2644111		
30	0,470	10	0,079522124	71,5699115	0,417460177	71,98737168	70,32744766	1020,660623		
45	0,575	10	0,098106195	88,29557522	0,815070796	89,11064602	87,05588422	1180,374989		
60	0,776	10	0,133681416	120,3132743	1,30560177	121,6188761	118,8145218	1544,028045		

Penimbangan : 210 mg

b. Replikasi 2

Menit ke	Abs	Pengen ceran	Kadar (mg/ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut	Luas A (mg)	Luas A+B (mg.menit)	DE_{60} (%)
5	0,590		0,010076106	9,068495575		9,068495575	8,901778688	22,25444672	3804,455478	63,4075913
15	0,471	5	0,039849558	35,86460177	0,050380531	35,9149823	35,25471467	220,7824668		
30	0,325	10	0,053858407	48,47256637	0,249628319	48,72219469	47,82647692	623,108937		
45	0,740	10	0,127309735	114,5787611	0,518920354	115,0976814	112,9817045	1206,061361		
60	0,768	10	0,132265487	119,0389381	1,155469027	120,1944071	117,984731	1732,248267		

Penimbangan : 209 mg

c. Replikasi 3

Menit ke	Abs	Pengen ceran	Kadar (mg/ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut	Luas A (mg)	Luas A+B (mg.menit)	DE_{60} (%)
5	0,087		0,001173451	1,056106195		1,056106195	1,026377659	2,565944148	4108,02014	68,46700233
15	0,766	5	0,065955752	59,36017699	0,005867257	59,36604425	57,69493809	293,6065787		
30	0,563	10	0,095982301	86,3840708	0,335646018	86,71971681	84,27862689	1064,801737		
45	0,617	10	0,105539823	94,98584071	0,815557522	95,80139823	93,10466631	1330,374699		
60	0,631	10	0,108017699	97,2159292	1,343256637	98,55918584	95,78482443	1416,671181		

Penimbangan : 211,1 mg

3. CF12

a. Replikasi 1

Menit ke	Abs	Pengen ceran	Kadar (mg/ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut	Luas A (mg)	Luas A+B (mg.menit)	DE_{60} (%)
5	0,070		0,000872566	0,785309735		0,785309735	0,70796647	1,769916174	3025,585937	50,42643228
15	0,753	5	0,06480531	58,32477876	0,004362832	58,32914159	52,58444489	266,4620568		
30	0,737	5	0,063389381	57,05044248	0,328389381	57,37883186	51,72772888	782,3413033		
45	0,470	10	0,079522124	71,5699115	0,645336283	72,21524779	65,10294193	876,230031		
60	0,581	10	0,099168142	89,25132743	1,042946903	90,29427434	81,40140869	1098,78263		

Penimbangan : 314 mg

b. Replikasi 2

Menit ke	Abs	Pengen ceran	Kadar (mg/ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut	Luas A (mg)	Luas A+B (mg.menit)	DE_{60} (%)
5	-0,024		-0,00079115	-0,71203540		-0,71203540	-0,63987094	-1,5996773	2662,902726	44,38171209
15	0,181	5	0,014185841	12,76725664	-0,00395575	12,76330088	11,46974626	54,1493766		
30	0,763	5	0,065690265	59,12123894	0,066973451	59,18821239	53,18951452	484,9444558		
45	0,519	10	0,08819469	79,37522124	0,395424779	79,77064602	71,68592805	936,5658192		
60	0,622	10	0,106424779	95,78230088	0,83639823	96,61869912	86,82643878	1188,842751		

Penimbangan : 315 mg

c. Replikasi 3

Menit ke	Abs	Pengen ceran	Kadar (mg/ml)	Jumlah Terlarut (mg)	Koreksi (mg)	Jumlah Terlarut setelah Koreksi	% Terlarut	Luas A (mg)	Luas A+B (mg.menit)	DE_{60} (%)
5	0,082		0,001084956	0,976460177		0,976460177	0,877496391	2,193740977	2697,116058	44,95193431
15	0,544	5	0,046309735	41,67876106	0,005424779	41,68418584	37,45951294	191,6850467		
30	0,723	5	0,062150442	55,93539823	0,236973451	56,17237168	50,47932787	659,5413061		
45	0,459	10	0,077575221	69,81769912	0,547725664	70,36542478	63,23392162	852,8493711		
60	0,496	10	0,084123894	75,71150442	0,93560177	76,64710619	68,87895754	990,8465936		

Penimbangan : 315 mg

Harga C_{45} campuran fisik asam fenofibrat

Kode	C_{45} (%)			X ±SD
	1	2	3	
CF21	100,799542	93,22341284	88,94884242	95,74878921±4,374080183
CF11	87,05588422	112,9817045	93,10466631	97,71408501±13,56363134
CF12	65,10294193	71,68592805	63,23392162	66,67426386±4,439695106

Harga DE_{60} campuran fisik asam fenofibrat.

Kode	DE_{60} (%)			X ±SD
	1	2	3	
CF21	66,98663278	70,72410379	57,07038219	64,92703959 ± 7,056023774
CF11	68,85931143	63,4075913	63,4075913	66,91130169 ± 3,040635864
CF12	50,42643228	44,38171209	44,95193431	46,58669289 ± 3,337512138

Lampiran 9. Perhitungan Hasil Uji Disolusi Asam Fenofibrat Murni

1. AF Murni
   a. Replikasi 1

Menit ke	Abs	Pengen ceran	Kadar (mg/ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut	Luas A (mg)	Luas A+B (mg.menit)	DE_{60} (%)
5	0,310	5	0,02560177	23,04159292		23,04159292	21,94437421	54,86093552	2740,741361	45,67902269
15	0,579	5	0,04940708	44,46637168	0,12800885	44,59438053	42,4708386	322,0760641		
30	0,334	10	0,055451327	49,90619469	0,375044248	50,28123894	47,88689423	677,6829962		
45	0,394	10	0,066070796	59,46371681	0,652300885	60,1160177	57,25335019	788,5518331		
60	0,426	10	0,071734513	64,56106195	0,982654867	65,54371681	62,42258744	897,5695322		

Penimbangan : 105 mg

   b. Replikasi 2

Menit ke	Abs	Pengen ceran	Kadar (mg/ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut	Luas A (mg)	Luas A+B (mg.menit)	DE_{60} (%)
5	0,783		0,013492035	12,14283186		12,14283186	11,56460177	28,91150442	2381,486094	39,69143489
15	0,467	5	0,039495575	35,5460177	0,067460177	35,61347788	33,91759798	227,4109987		
30	0,601	5	0,051353982	46,21858407	0,264938053	46,48352212	44,27002107	586,4071429		
45	0,355	10	0,059168142	53,25132743	0,521707965	53,7730354	51,21241466	716,118268		
60	0,401	10	0,067309735	60,57876106	0,817548673	61,39630973	58,47267594	822,6381795		

Penimbangan : 105 mg

c. Replikasi 3

Menit ke	Abs	Pengen ceran	Kadar (mg/ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut	Luas A (mg)	Luas A+B (mg.menit)	DE_{60} (%)
5	0,709		0,012182301	10,9640708		10,9640708	10,44197219	26,10493047		
15	0,317	5	0,026221239	23,59911504	0,060911504	23,66002655	22,53335862	164,876654		
30	0,409	5	0,034362832	30,92654867	0,192017699	31,11856637	29,63672988	391,2756637	1782,18563	29,70309383
45	0,290	10	0,047663717	42,89734513	0,363831858	43,26117699	41,20112094	531,2838812		
60	0,333	10	0,055274336	49,74690265	0,602150442	50,3490531	47,95147914	668,6445006		

Penimbangan : 105 mg

Harga C_{45} asam fenofibrat murni

Kode	C_{45} (%)			X ±SD
	1	2	3	
AF Murni	57,25335019	51,21241466	41,20112094	49,88896193±8,107537313

Harga DE_{60} asam fenofibrat murni

Kode	DE_{60} (%)			X ±SD
	1	2	3	
AF Murni	45,67902269	39,69143489	29,70309383	38,35785047 ± 8,071022936

Lampiran 10. Hasil Uji Statistik DE_{60}.

1. Uji Normalitas

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Perbandingan	Statistic	df	Sig.	Statistic	df	Sig.
DE60	DPP21	.246	3	.	.970	3	.669
	DPP11	.327	3	.	.872	3	.301
	DPP12	.221	3	.	.986	3	.772
	CF21	.281	3	.	.936	3	.512
	CF11	.362	3	.	.804	3	.123
	CF12	.355	3	.	.820	3	.163
	AF M	.232	3	.	.980	3	.726

a. Lilliefors Significance Correction

Kesimpulan : Nilai DE_{60} dispersi padat, campuran fisik dalam bahan pembawa sodium starch glycolate dan asam fenofibrat murni signifikansi >0,05 maka data terdistribusi normal.

2. Uji Homogenitas

Test of Homogeneity of Variances

DE60

Levene Statistic	df1	df2	Sig.
1.318	6	14	.312

Kesimpulan : Nilai DE_{60} dispersi padat, campuran fisik dalam bahan pembawa sodium starch glycolate dan asam fenofibrat murni signifikansi >0,05 maka data mempunyai varian yang homogen.

3. Uji Anova

ANOVA

DE60

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2965.961	6	494.327	15.489	.000
Within Groups	446.795	14	31.914		
Total	3412.756	20			

Kesimpulan : Data DE_{60} dispersi padat, campuran fisik dalam bahan pembawa sodium starch glycolate dan asam fenofibrat murni mempunyai nilai signifikansi <0,05 hal ini menunjukkan adanya perbedaan yang signifikan.

4. Uji Tukey

Multiple Comparisons

DE60

Tukey HSD

(I) Perbandingan	(J) Perbandingan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
DPP21	DPP11	1.1899893733E0	4.6125845075E0	1.000	-1.456007904E1	1.694005778E1
	DPP12	2.4033177607E1*	4.6125845075E0	.002	8.283109195	3.978324602E1
	CF21	2.2672974533E0	4.6125845075E0	.999	-1.348277096E1	1.801736586E1
	CF11	.2830353533	4.6125845075E0	1.000	-1.546703306E1	1.603310376E1
	CF12	2.0607644147E1*	4.6125845075E0	.007	4.857575735	3.635771256E1
	AF M	2.8836486570E1*	4.6125845075E0	.000	1.308641816E1	4.458655498E1
DPP11	DPP21	-1.1899893733E0	4.6125845075E0	1.000	-1.694005778E1	1.456007904E1
	DPP12	2.2843188233E1*	4.6125845075E0	.003	7.093119822	3.859325664E1
	CF21	1.0773080800E0	4.6125845075E0	1.000	-1.467276033E1	1.682737649E1
	CF11	-.9069540200	4.6125845075E0	1.000	-1.665702243E1	1.484311439E1
	CF12	1.9417654773E1*	4.6125845075E0	.012	3.667586362	3.516772318E1
	AF M	2.7646497197E1*	4.6125845075E0	.001	1.189642879E1	4.339656561E1
DPP12	DPP21	-2.4033177607E1*	4.6125845075E0	.002	-3.978324602E1	-8.283109195E0
	DPP11	-2.2843188233E1*	4.6125845075E0	.003	-3.859325664E1	-7.093119822E0
	CF21	-2.1765880153E1*	4.6125845075E0	.005	-3.751594856E1	-6.015811742E0
	CF11	-2.3750142253E1*	4.6125845075E0	.002	-3.950021066E1	-8.000073842E0
	CF12	-3.4255334600E0	4.6125845075E0	.987	-1.917560187E1	1.232453495E1
	AF M	4.8033089633E0	4.6125845075E0	.935	-1.094675945E1	2.055337737E1
CF21	DPP21	-2.2672974533E0	4.6125845075E0	.999	-1.801736586E1	1.348277096E1
	DPP11	-1.0773080800E0	4.6125845075E0	1.000	-1.682737649E1	1.467276033E1
	DPP12	2.1765880153E1*	4.6125845075E0	.005	6.015811742	3.751594856E1
	CF11	-1.9842621000E0	4.6125845075E0	.999	-1.773433051E1	1.376580631E1
	CF12	1.8340346693E1*	4.6125845075E0	.018	2.590278282	3.409041510E1

	AF M	2.6569189117E1*	4.6125845075E0	.001	1.081912071E1	4.231925753E1
CF11	DPP21	-.2830353533	4.6125845075E0	1.000	-1.603310376E1	1.546703306E1
	DPP11	.9069540200	4.6125845075E0	1.000	-1.484311439E1	1.665702243E1
	DPP12	2.3750142253E1*	4.6125845075E0	.002	8.000073842	3.950021066E1
	CF21	1.9842621000E0	4.6125845075E0	.999	-1.376580631E1	1.773433051E1
	CF12	2.0324608793E1*	4.6125845075E0	.008	4.574540382	3.607467720E1
	AF M	2.8553451217E1*	4.6125845075E0	.000	1.280338281E1	4.430351963E1
CF12	DPP21	-2.0607644147E1*	4.6125845075E0	.007	-3.635771256E1	-4.857575735E0
	DPP11	-1.9417654773E1*	4.6125845075E0	.012	-3.516772318E1	-3.667586362E0
	DPP12	3.4255334600E0	4.6125845075E0	.987	-1.232453495E1	1.917560187E1
	CF21	-1.8340346693E1*	4.6125845075E0	.018	-3.409041510E1	-2.590278282E0
	CF11	-2.0324608793E1*	4.6125845075E0	.008	-3.607467720E1	-4.574540382E0
	AF M	8.2288424233E0	4.6125845075E0	.578	-7.521225988E0	2.397891083E1
AF M	DPP21	-2.8836486570E1*	4.6125845075E0	.000	-4.458655498E1	-1.308641816E1
	DPP11	-2.7646497197E1*	4.6125845075E0	.001	-4.339656561E1	-1.189642879E1
	DPP12	-4.8033089633E0	4.6125845075E0	.935	-2.055337737E1	1.094675945E1
	CF21	-2.6569189117E1*	4.6125845075E0	.001	-4.231925753E1	-1.081912071E1
	CF11	-2.8553451217E1*	4.6125845075E0	.000	-4.430351963E1	-1.280338281E1
	CF12	-8.2288424233E0	4.6125845075E0	.578	-2.397891083E1	7.521225988

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

Kesimpulan :

1. Data DE_{60} DPP21 dan DPP11 berbeda bermakna dengan AF Murni namun secara statistik antara DPP12 dengan AF murni tidak berbeda bermakna.
2. Data DE_{60} ada perbedaan bermakna secara statistik antara CF21 dan CF11 dengan AF murni namun tidak berbeda bermakna antara CF11 dengan AF murni.
3. Data DE_{60} DPP21 dengan CF21 tidak ada perbedaan bermakna secara statistik.