

LAMPIRAN

Lampiran 1. Sertifikasi Analisis Bahan Atorvastatin Kalsium

Quality, Reliability, Sustainability

SMOCHEM DSM
DSM Sankarum Pharmaceutical

Certificate of Analysis

ATORVASTATIN-CALCIUM TRIHYDRATE ✓
GRADE: CRYSTALLINE

Batch / Lot No: AT100003 Mfg. Lic. No: 1879-OSIP
Batch / Lot size: 355 kg
Mfg. Date: September 2017 Expiry/Retest Date: August 2022 Release Date: 09.10.2017

Character: White or almost white powder, very slightly soluble in water, slightly soluble in ethanol (95%), practically insoluble in methylene chloride

Tests	Specifications	Units	Results
Identification	A. Atorvastatin Calcium: IR B. Calcium C. XRD - Characteristic 2θ values 2θ 15.847, 10.266, 10.36, 11.662, 12.136, 17.575, 19.485, 21.626, 21.960, 22.748, 23.316, 23.734		Complies with test Complies with test 2θ values must be within ± 0.2 of the standard values Complies
Assay (dm anhydrous basis)	97.0 to 102.0	%w/w	98.8
Sodium tartrate dihydrate substance	Not more than 0.4	%	0.10
Heads metals	Not more than 20	ppm	Less than 20
Specified impurities			
Desferal (impurity A)	Not more than 0.3	%	0.05
36 SR isomer (impurity B)	Not more than 0.3	%	0.05
Others (impurity C)	Not more than 0.15	%	Not detected
Danava (impurity D)	Not more than 0.55	%	Not detected
Any unspecified impurity	Not more than 0.10	%	Less than 0.05
Other detectable			
Amide (impurity F)	Not more than 0.15	%	0.06
3-O-methyl (impurity G)	Not more than 0.15	%	0.06
Ester (impurity H)	Not more than 0.15	%	Less than 0.05
Total impurities (impurity E Not included)	Not more than 1.5	%	0.22
Impurity E (sum atorvastatin)	Not more than 0.2	%	0.03
Water	3.5 to 5.5	%w/w	4.5
Residual solvent			
Methyl acet. Butyl ester	Not more than 5000	ppm	495
Methanol	Not more than 2000	ppm	Not detected
Particle Size Distribution (Dry Method)			
D50	< 20 µm	µm	6
D90	< 5 µm	µm	1
D10	< 2 µm	µm	1

Pharmaceutical quality - Complies with Ph. Eur. monograph 2161
Manufactured according to ICH Q7 GMP for APIs
Compliance to GMP - RI-CEP0210 2014 Rev00
* Analysis performed as per USP Method
Storage: Store less than 30°C

Approved by

Date of issue: 13.10.2017

Quality Assurance

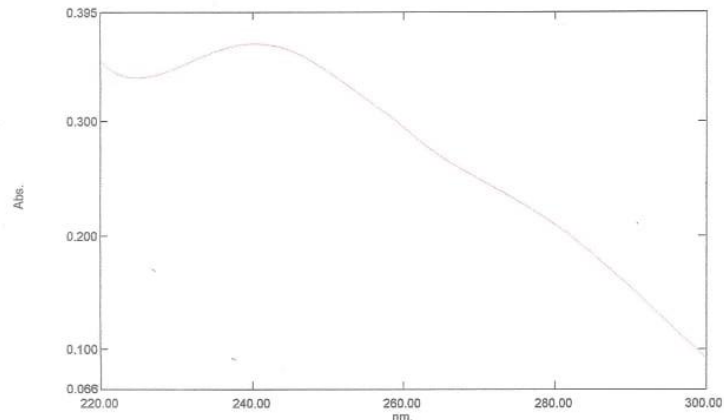
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Lampiran 2. Panjang Gelombang Maksimal

Spectrum Peak Pick Report

04/30/2018 12:42:17 PM

Data Set: repeat 656_123504 - RawData-002



[Measurement Properties]
Wavelength Range (nm): 220.00 to 300.00
Scan Speed: Medium
Sampling Interval: 0.2
Auto Sampling Interval: Disabled
Scan Mode: Repeat

[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: 1

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

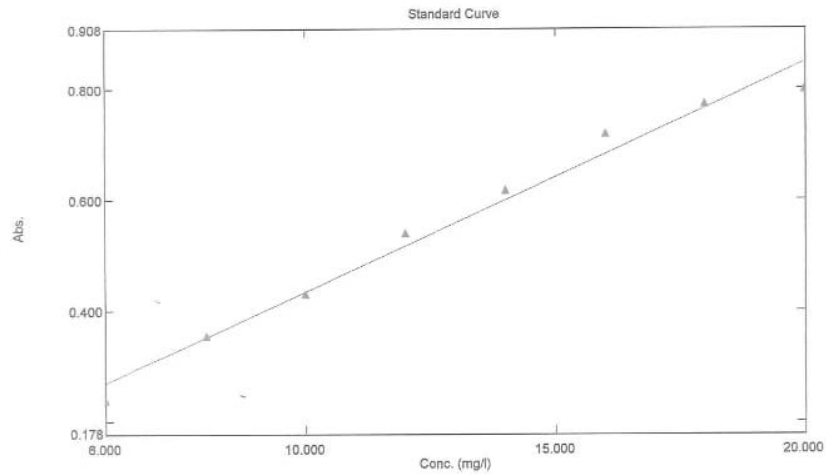
[Sample Preparation Properties]
Weight:
Volume:
Dilution:
Path Length:
Additional Information:

Lampiran 3. Kurva Baku Atorvastatin Kalsium

Standard Table Report

04/30/2018 02:38:48 PM

File Name: C:\Users\HP\Documents\File_180430_135115.pho



Standard Table

	Sample ID	Type	Ex	Conc	WL240.2	Wgt.Factor	Comments
1	6 ppm	Standard		6.000	0.239	1.000	
2	8 ppm	Standard		8.000	0.355	1.000	
3	10 ppm	Standard		10.000	0.430	1.000	
4	12 ppm	Standard		12.000	0.540	1.000	
5	14 ppm	Standard		14.000	0.617	1.000	
6	16 ppm	Standard		16.000	0.718	1.000	
7	18 ppm	Standard		18.000	0.772	1.000	
8	20 ppm	Standard		20.000	0.798	1.000	
9							

Lampiran 4. Perolehan Kembali Atorvastatin Kalsium

1. Penimbangan DPP11

Replikasi	Kertas Kosong (g)	Kertas + isi (g)	Kertas + sisa (g)	Berat Total (g)
I	0.3300	0.4321	0.3305	0.1016
II	0.3265	0.4273	0.3266	0.1007
III	0.3430	0.4445	0.3435	0.1010

2. Penimbangan DPP14

Replikasi	Kertas Kosong (g)	Kertas + isi (g)	Kertas + sisa (g)	Berat Total (g)
I	0.3295	0.4303	0.3298	0.1005
II	0.3432	0.4447	0.3435	0.1012
III	0.3370	0.4382	0.3374	0.1008

3. Penimbangan DPP19

Replikasi	Kertas Kosong (g)	Kertas + isi (g)	Kertas + sisa (g)	Berat Total (g)
I	0.3388	0.4398	0.3401	0.0997
II	0.3320	0.4335	0.3334	0.1001
III	0.3673	0.4678	0.3677	0.1001

4. Penimbangan CF19

Replikasi	Kertas Kosong (g)	Kertas + isi (g)	Kertas + sisa (g)	Berat Total (g)
I	0.3451	0.4469	0.3454	0.1015
II	0.33270	0.4286	0.3280	0.1006
III	0.3651	0.4675	0.3649	0.1026

5. Penimbangan AK RE

Replikasi	Kertas Kosong (g)	Kertas + isi (g)	Kertas + sisa (g)	Berat Total (g)
I	0.3361	0.4363	0.3362	0.1001
II	0.3521	0.4524	0.3522	0.1002
III	0.3447	0.4447	0.3443	0.1004

Lampiran 4. Lanjutan

Perhitungan Penetapan Kadar

Persamaan regresi linier $y=0,0082x+(-0,04415)$

$=0,997$

Kode	Absorbansi	Konsentrasi	Kadar (%)	Rata-rata kadar $\pm$ SD(%)
DPP11	0,472	53,608	107,216	98,75 $\pm$ 7,44
	0,420	47,917	95,834	
	0,408	46,603	93,752	
DPP14	0,423	19,298	96,49	92,62 $\pm$ 5,77
	0,418	19,078	95,39	
	0,375	17,196	85,98	
DPP19	0,467	10,612	106,12	101,89 $\pm$ 4,06
	0,430	9,802	98,02	
	0,446	10,152	101,52	
CF 19	0,478	8,970	89,70	9,58 $\pm$ 0,77
	0,476	9,320	93,20	
	0,459	10,459	104,59	
AK RE	0,455	10,49	104,91	102,12 $\pm$ 2,62
	0,432	9,97	99,70	
	0,441	10,17	101,74	

Lampiran 5. Hasil Uji Disolusi Atorvastatin Kalsium

1. DPP Crospovidon 1:1 replikasi I

Menit	Abs	kadar mcg/ml	kadar mg/ml	jumlah (mg)	faktor koreksi	jumlah terkoreksi	% Terlarut
0	0	0	0	0	0		
5	0,215	10,1110	0,0101	9,0999	0	9,0999	18,1745
15	0,3	13,9615	0,0140	12,5653	0,0506	12,6159	25,1967
30	0,479	22,0702	0,0221	19,8632	0,1204	19,9836	39,9116
45	0,49	22,5685	0,0226	20,3117	0,2307	20,5424	41,0276
60	0,555	25,5130	0,0255	22,9617	0,3436	23,3053	46,5458

2. DPP Crospovidon 1:1 replikasi II

Menit	Abs	kadar mcg/ml	kadar mg/ml	jumlah (mg)	faktor koreksi	jumlah terkoreksi	% Terlarut
0	0	0	0	0	0		
5	0,239	11,1982	0,0112	10,0784	0	10,0784	20,1287
15	0,4	18,4915	0,0185	16,6424	0,0560	16,6983	33,3503
30	0,445	20,5300	0,0205	18,4770	0,1484	18,6255	37,1991
45	0,489	22,5232	0,0225	20,2709	0,2511	20,5220	40,9869
60	0,587	26,9626	0,0270	24,2664	0,3637	24,6301	49,1917

3. DPP Crospovidon 1:1 replikasi III

Menit	Abs	kadar mcg/ml	kadar mg/ml	jumlah (mg)	faktor koreksi	jumlah terkoreksi	% Terlarut
0	0	0	0	0	0		
5	0,223	10,4734	0,0105	9,4260	0	9,4260	18,8259
15	0,35	16,2265	0,0162	14,6039	0,0524	14,6562	29,2717
30	0,467	21,5266	0,0215	19,3740	0,1335	19,5075	38,9607
45	0,59	27,0985	0,0271	24,3887	0,2411	24,6298	49,1911
60	0,651	29,8618	0,0299	26,8757	0,3766	27,2523	54,4288

4. DPP Crospovidon 1:4 replikasi I

Menit	Abs	kadar mcg/ml	kadar mg/ml	jumlah (mg)	faktor koreksi	jumlah terkoreksi	% Terlarut
0	0	0	0	0	0		
5	0,144	3,4473	0,0034	3,1026	0	3,1026	16,7491
15	0,361	8,3624	0,0084	7,5262	0,0172	7,5434	40,7223
30	0,42	9,6988	0,0097	8,7289	0,0590	8,7879	47,4408
45	0,436	10,0612	0,0101	9,0550	0,1075	9,1626	49,4633
60	0,579	13,3001	0,0133	11,9701	0,1578	12,1280	65,4716

5. DPP Crospovidon 1:4 replikasi II

Menit	Abs	kadar mcg/ml	kadar mg/ml	jumlah (mg)	faktor koreksi	jumlah terkoreksi	% Terlarut
0	0	0	0	0	0		
5	0,22	5,1687	0,0052	4,6519	0,0000	4,6519	25,1127
15	0,402	9,2911	0,0093	8,3619	0,0258	8,3878	45,2807
30	0,562	12,9151	0,0129	11,6236	0,0723	11,6959	63,1389
45	0,591	13,5719	0,0136	12,2147	0,1369	12,3516	66,6789
60	0,629	14,4326	0,0144	12,9894	0,2047	13,1941	71,2270

6. DPP Crospovidon 1:4 replikasi III

Menit	Abs	kadar mcg/ml	kadar mg/ml	jumlah (mg)	faktor koreksi	jumlah terkoreksi	% Terlarut
0	0	0	0	0	0		
5	0,136	3,2661	0,0033	2,9395	0	2,9395	15,8687
15	0,386	8,9287	0,0089	8,0358	0,0163	8,0521	43,4686
30	0,585	13,4360	0,0134	12,0924	0,0610	12,1534	65,6089
45	0,603	13,8437	0,0138	12,4593	0,1282	12,5875	67,9524
60	0,657	15,0668	0,0151	13,5601	0,1974	13,7575	74,2686

7. DPP Crospovidon 1:9 replikasi I

Menit	Abs	kadar mcg/ml	kadar mg/ml	jumlah (mg)	faktor koreksi	jumlah terkoreksi	% Terlarut
0	0	0	0	0	0		
5	0,217	5,1008	0,0051	4,5907	0	4,5907	45,0556
15	0,348	8,0680	0,0081	7,2612	0,0255	7,2867	71,5150
30	0,395	9,1325	0,0091	8,2193	0,0658	8,2851	81,3141
45	0,394	9,1099	0,0091	8,1989	0,1115	8,3104	81,5622
60	0,405	9,3590	0,0094	8,4231	0,1571	8,5802	84,2100

8. DPP Crospovidon 1:9 replikasi II

Menit	Abs	kadar mcg/ml	kadar mg/ml	jumlah (mg)	faktor koreksi	jumlah terkoreksi	% Terlarut
0	0	0	0	0	0		
5	0,213	5,0102	0,0050	4,5092	0	4,5092	44,2553
15	0,369	8,5436	0,0085	7,6892	0,0251	7,7143	75,7120
30	0,4	9,2458	0,0092	8,3212	0,0678	8,3889	82,3334
45	0,402	9,2911	0,0093	8,3619	0,1140	8,4759	83,1872
60	0,406	9,3817	0,0094	8,4435	0,1605	8,6039	84,4434

9. DPP Crospovidon 1:9 replikasi III

Menit	Abs	kadar mcg/ml	kadar mg/ml	jumlah (mg)	faktor koreksi	jumlah terkoreksi	% Terlarut
0	0	0	0	0	0		
5	0,231	5,4179	0,0054	4,8761	0	4,8761	47,8566
15	0,299	6,9581	0,0070	6,2623	0,0271	6,2894	61,7271
30	0,352	8,1586	0,0082	7,3427	0,0619	7,4046	72,6722
45	0,367	8,4983	0,0085	7,6485	0,1027	7,7511	76,0736
60	0,38	8,7928	0,0088	7,9135	0,1452	8,0586	79,0916

10. Atorvastatin Kalsium Murni replikasi I

Menit	Abs	kadar mcg/ml	kadar mg/ml	jumlah (mg)	faktor koreksi	jumlah terkoreksi	% Terlarut
0	0	0	0	0	0		
5	0,113	5,4904	0,0055	4,9413	0	4,9413	4,9413
15	0,43	19,8505	0,0199	17,8655	0,0275	17,8929	17,8929
30	0,64	29,3635	0,0294	26,4272	0,1267	26,5539	26,5539
45	0,729	33,3952	0,0334	30,0557	0,2735	30,3292	30,3292
60	0,935	42,7271	0,0427	38,4544	0,4405	38,8949	38,8949

11. Atorvastatin Kalsium Murni replikasi II

Menit	Abs	kadar mcg/ml	kadar mg/ml	jumlah (mg)	faktor koreksi	jumlah terkoreksi	% Terlarut
0	0	0	0	0	0		
5	0,201	9,4768	0,0095	8,5291	0	8,5291	8,5291
15	0,333	15,4564	0,0155	13,9108	0,0474	13,9581	13,9581
30	0,592	27,1891	0,0272	24,4702	0,1247	24,5949	24,5949
45	0,782	35,7961	0,0358	32,2165	0,2606	32,4771	32,4771
60	0,879	40,1903	0,0402	36,1712	0,4396	36,6108	36,6108

12. Atorvastatin Kalsium Murni replikasi III

Menit	Abs	kadar mcg/ml	kadar mg/ml	jumlah (mg)	faktor koreksi	jumlah terkoreksi	% Terlarut
0	0	0	0	0	0		
5	0,258	12,0589	0,0121	10,8530	0	10,8530	10,8530
15	0,314	14,5957	0,0146	13,1361	0,0603	13,1964	13,1964
30	0,543	24,9694	0,0250	22,4725	0,1333	22,6058	22,6058
45	0,798	36,5210	0,0365	32,8689	0,2581	33,1270	33,1270
60	0,835	38,1971	0,0382	34,3773	0,4407	34,8181	34,8181

13. Atorvastatin Kalsium Rekristalisasi replikasi I

Menit	Abs	kadar mcg/ml	kadar mg/ml	jumlah (mg)	faktor koreksi	jumlah terkoreksi	% Terlarut
0	0	0	0	0	0		
5	0,289	13,4632	0,0135	12,1169	0	12,1169	12,0212
15	0,4	18,4915	0,0185	16,6424	0,0673	16,7097	16,5777
30	0,434	20,0317	0,0200	18,0285	0,1598	18,1883	18,0447
45	0,647	29,6806	0,0297	26,7126	0,2599	26,9725	26,7595
60	0,741	33,9388	0,0339	30,5450	0,4083	30,9533	30,7089

14. Atorvastatin Kalsium Rekristalisasi replikasi II

Menit	Abs	kadar mcg/ml	kadar mg/ml	jumlah (mg)	faktor koreksi	jumlah terkoreksi	% Terlarut
0	0	0	0	0	0		
5	0,278	12,9649	0,0130	11,6684	0	11,6684	11,5763
15	0,391	18,0838	0,0181	16,2754	0,0648	16,3402	16,2112
30	0,44	20,3035	0,0203	18,2732	0,1552	18,4284	18,2829
45	0,692	31,7191	0,0317	28,5472	0,2568	28,8040	28,5765
60	0,761	34,8448	0,0348	31,3604	0,4154	31,7757	31,5248

15. Atorvastatin Kalsium Rekristalisasi replikasi III

Menit	Abs	kadar mcg/ml	kadar mg/ml	jumlah (mg)	faktor koreksi	jumlah terkoreksi	% Terlarut
0	0	0	0	0	0		
5	0,262	12,2401	0,0122	11,0161	0	11,0161	10,9291
15	0,376	17,4043	0,0174	15,6639	0,0612	15,7251	15,6009
30	0,423	19,5334	0,0195	17,5801	0,1482	17,7283	17,5883
45	0,648	29,7259	0,0297	26,7533	0,2459	26,9992	26,7860
60	0,732	33,5311	0,0335	30,1780	0,3945	30,5725	30,3311

16. Campuran Fisik 1:9 replikasi I

Menit	Abs	kadar mcg/ml	kadar mg/ml	jumlah (mg)	faktor koreksi	jumlah terkoreksi	% Terlarut
0	0	0	0	0	0		
5	0,144	3,4473	0,0034	3,1026	0	3,1026	32,3751
15	0,157	3,7418	0,0037	3,3676	0,0172	3,3848	35,3203
30	0,235	5,5085	0,0055	4,9576	0,0359	4,9936	52,1072
45	0,352	8,1586	0,0082	7,3427	0,0635	7,4062	77,2822
60	0,484	11,1484	0,0111	10,0335	0,1043	10,1378	105,7861

17. Campuran Fisik 1:9 replikasi II

Menit	Abs	kadar mcg/ml	kadar mg/ml	jumlah (mg)	faktor koreksi	jumlah terkoreksi	% Terlarut
0	0	0	0	0	0		
5	0,103	2,5187	0,0025	2,2668	0	2,2668	23,6538
15	0,161	3,8324	0,0038	3,4492	0,0126	3,4617	36,1227
30	0,274	6,3918	0,0064	5,7527	0,0318	5,7844	60,3593
45	0,234	5,4858	0,0055	4,9373	0,0637	5,0010	52,1843
60	0,3	6,9807	0,0070	6,2827	0,0911	6,3738	66,5096

18. Campuran Fisik 1:9 replikasi III

Menit	Abs	kadar mcg/ml	kadar mg/ml	jumlah (mg)	faktor koreksi	jumlah terkoreksi	% Terlarut
0	0	0	0	0	0		
5	0,152	3,6285	0,0036	3,2657	0	3,2657	34,0768
15	0,188	4,4439	0,0044	3,9995	0,0181	4,0177	41,9239
30	0,281	6,5504	0,0066	5,8954	0,0404	5,9357	61,9382
45	0,275	6,4145	0,0064	5,7730	0,0731	5,8462	61,0036
60	0,341	7,9094	0,0079	7,1185	0,1052	7,2236	75,3774

Lampiran 6. Data Perhitungan DE₆₀ Uji Disolusi Atorvastatin Kalsium

1. DPP Crospovidon 1:1

Replikasi	Luas Bidang	Luas Area Bidang (A+B)	DE ₆₀ (%)
1	2014,44	6000	33,57
2	2109,57	6000	35,15
3	2237,58	6000	37,29
Rata-Rata			35,34
SD			1,86

2. DPP Crospovidon 1:4

Replikasi	Luas Bidang	Luas Area Bidang (A+B)	DE ₆₀ (%)
1	2579,24	6000	42,98
2	3235,82	6000	53,93
3	3222,80	6000	53,71
Rata-Rata			50,21
SD			6,25

3. DPP Crospovidon 1:9

Replikasi	Luas Bidang	Luas Area Bidang (A+B)	DE ₆₀ (%)
1	4306,57	6000	71,77
2	4394,44	6000	73,24
3	3954,88	6000	65,91
Rata-Rata			70,31
SD			3,87

4. Atrovastatin Kalsium Murni

Replikasi	Luas Bidang	Luas Area Bidang (A+B)	DE ₆₀ (%)
1	1405,67	6000	23,42
2	1369,10	6000	22,81
3	1343,47	6000	22,39
Rata-Rata			22,87
SD			0,52

5. Atorvastatin Kalsium Rekrystalisasi

Replikasi	Luas Bidang	Luas Area Bidang (A+B)	DE ₆₀ (%)
1	1199,75	6000	19,99
2	1228,78	6000	20,47
3	1170,07	6000	19,50
Rata-Rata			19,99
SD			0,48

6. Campuran Fisik Crospovidon

Replikasi	Luas Bidang	Luas Area Bidang (A+B)	DE ₆₀ (%)
1	3418,55	6000	56,97
2	2815,91	6000	46,93
3	3189,08	6000	53,15
Rata-Rata			52,35
SD			5,06

Lampiran 7. Hasil Uji Statistik DE60Atorvastatin Kalsium

1. Uji Normalitas

Tests of Normality

DPP		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
DE60	DPP 1:1	.333	3	.	.862	3	.274
	DPP 1:4	.379	3	.	.765	3	.033
	DPP 1:9	.314	3	.	.893	3	.364
	AK MURNI	.214	3	.	.989	3	.802
	AK RE	.175	3	.	1.000	3	1.000
	CF 1:9	.229	3	.	.981	3	.739

a. Lilliefors Significance Correction

Data terdistribusi normal karena nilai sig. Lebih dari 0,05

2. Uji Homogenitas

Test of Homogeneity of Variances

DE60

Levene Statistic	df1	df2	Sig.
4.034	5	12	.022

Varian data tidak homogen karena nilai sig. kurang dari 0,05, sehingga dilakukan uji *kruskal-wallis*

3. Uji Statistik *Kruskall-Wallis*

	DPP	N	Mean Rank
DE60	DPP 1:1	3	8.00
	DPP 1:4	3	11.67
	DPP 1:9	3	17.00
	AK MURNI	3	5.00
	AK RE	3	2.00
	CF 1:9	3	13.33
	Total	18	

Test Statistics^{a,b}

	DE60
Chi-Square	16.251
df	5
Asymp. Sig.	.006

a. Kruskal Wallis Test

b. Grouping Variable: DPP

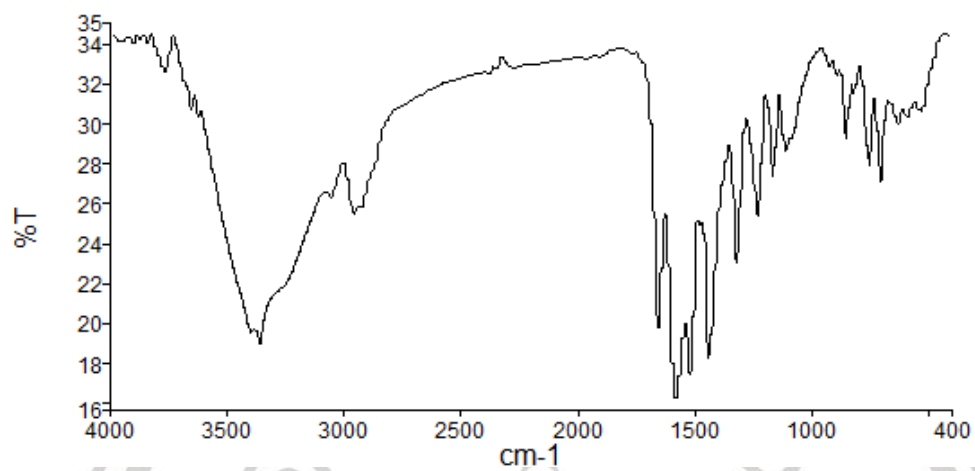
Nilai sig lebih dari 0,05, artinya tidak terdapat perbedaan bermakna pada data sehingga di lanjutkan uji *Mann-Whitney*

4. Uji Statistik *Mann-Whitney*

Perbandingan (a)	Perbandingan (b)	Sig.	Keterangan
AK Murni	DPP11	0,049	Berbeda bermakna
	DPP14	0,049	Berbeda bermakna
	DPP19	0,049	Berbeda bermakna
	CF19	0,049	Berbeda bermakna
	AKRE	0,049	Berbeda bermakna

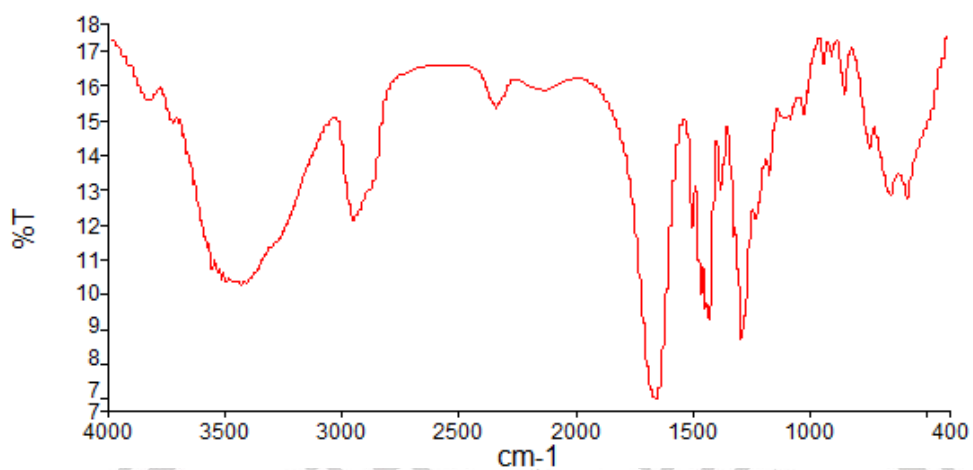
Lampiran 8. Hasil Spektrum *Fourier Transform Infrared Spectroscopy*

1. Atorvastatin Kalsium



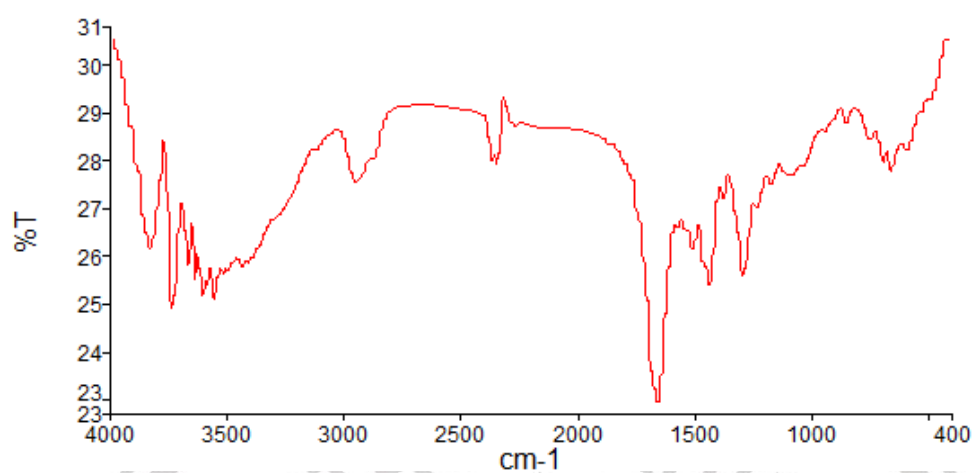
PeakName	X	Y
16	623.54	30.1
15	695.83	27.22
14	748.52	28.05
13	844.2	29.4
12	1106.55	28.73
11	1157.56	27.53
10	1222.66	25.39
9	1315.08	23.1
8	1434.09	18.2
7	1513.88	17.34
6	1578.98	16.17
5	1651.71	19.73
4	2965.93	25.53
3	3367.58	18.98
2	3661.26	30.78
1	3780.08	32.73

2. Crospovidon



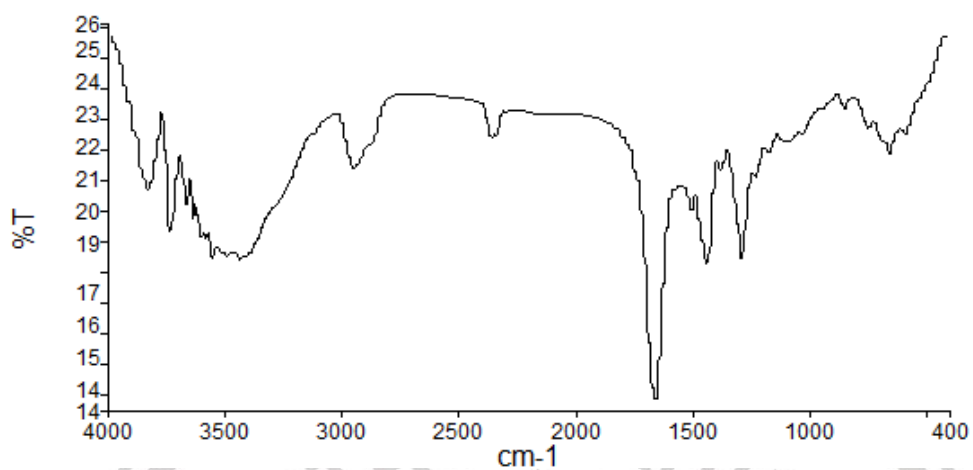
PeakName	X	Y
22	576.19	12.76
21	648.64	12.85
20	736.97	14.24
19	846.81	15.81
18	895.96	16.92
17	934.13	16.67
16	1019.18	15.23
15	1170.23	13.49
14	1228.91	12.17
13	1290.11	8.7
12	1318.5	11.68
11	1374.96	13.04
10	1423.97	9.31
9	1459.51	10
8	1491.21	11.94
7	1650.87	6.94
6	1657.2	6.99
5	2345.93	15.38
4	2953.47	12.16
3	3446.17	10.29
2	3567.57	10.73
1	3837.51	15.62

3. Dispersi Padat Permukaan Atorvastatin Kalsium-Crospovidon



PeakName	X	Y
12	649.82	27.78
11	1287.78	25.58
10	1430.69	25.41
9	1651.53	22.91
8	2344.83	27.97
7	2955.73	27.59
6	3565.26	25.13
5	3616.71	25.19
4	3647.79	25.54
3	3677.8	25.83
2	3745.95	24.91
1	3840.43	26.16

4. Campuran Fisik Atorvastatin Kalsium-Crospovidon



PeakName	X	Y
12	649.67	21.97
11	1288.02	18.49
10	1432.84	18.31
9	1500.25	20.06
8	1657.86	13.81
7	2363.32	22.51
6	2954.95	21.49
5	3445.15	18.45
4	3647.69	19.81
3	3677.67	20.26
2	3746.29	19.38
1	3840.59	20.78