LAMPIRAN A

HASIL UJI MUTU FISIK MASSA TABLET

Mutu fisk yang diuji	*Replikasi*	Formula Tablet Likuisolid Piroksikam				Persyaratan
		F A	F B	F C	F D	
Sudut Diam (derajat)	I	34,7	23,17	27,15	26,06	30-40= cukup baik (Banker & Anderson, 1986)
	II	31,32	24,1	25,25	26,23	
	III	31,57	22,74	25,89	26,32	
	Rata-rata	32,53	23,34	26,10	26,20	
	SD	1,88	0,69	0,96	0,13	
Hausner Ratio	I	1,23	1,176	1,2	1,19	< 1,25 (Shervington & Shervington, 1998).
	II	1,25	1,156	1,19	1,2	
	III	1,23	1,2	1,2	1,19	
	Rata-rata	1,24	1,18	1,2	1,19	
	SD	0,01	0,02	0,005	0,005	
Carr's Index (%)	I	18,99	15	16	15	18-21= Cukup baik (Wells, 1988)
	II	19,99	13,5	15	16	
	III	19	17	16	15	
	Rata-rata	19,32	15,16	15,66	15,33	
	SD	0,57	1,75	0,57	0,57	

LAMPIRAN B

HASIL UJI DISTRIBUSI UKURAN PARTIKEL

Replikasi	σ_g			
	Formula A	Formula B	Formula C	Formula D
1	1,93	1,92	1,90	1,92
2	1,96	1,91	1,90	1,92
3	1,93	1,95	1,91	1,89
Rata-rata ±SD	1,94±0,013	1,93±0,02	1,90 ±0,007	1,91 ±0,02

Replikasi	d_g			
	Formula A	Formula B	Formula C	Formula D
1	102,69	136,88	109,54	97,76
2	99,4	135,99	107,55	94,22
3	99,04	130,79	106,06	93,25
Rata-rata ±SD	100,38±2,01	134,55±3,29	107,72±1,75	95,08 ±2,37

LAMPIRAN C

HASIL UJI KEKERASAN TABLET LIKUISOLID PIROKSIKAM

REPLIKASI I

No	Kekerasan Tablet Likuisolid Piroksikam (Kp)			
	Formula I	Formula II	Formula III	Formula IV
1	16,3	11,45	16,3	16,3
2	16,3	11,83	16,3	16,3
3	16,3	11,89	16,3	16,3
4	16,3	11,58	16,3	16,3
5	16,3	11,58	16,3	16,3
6	16,3	11,64	16,3	16,3
Rata-rata ± SD	16,3 ± 0	11,66 ± 0,17	16,3 ± 0,0	16,3 ± 0,0
SD rel (%)	0	1,43	0	0

REPLIKASI II

No	Kekerasan Tablet Likuisolid Piroksikam (Kp)			
	Formula I	Formula II	Formula III	Formula IV
1	16,3	7,43	11,58	15,54
2	16,3	7,74	11,26	14,72
3	16,3	7,43	11,33	15,48
4	16,3	7,43	12,02	14,91
5	16,3	7,49	11,64	14,91
6	16,3	7,17	11,01	15,17
Rata-rata ± SD	16,3± 0	7,45 ± 0,35	11,47 ± 0,35	15,12 ± 0,33
SD rel (%)	0	2,44	3,07	2,21

REPLIKASI III

No	Kekerasan Tablet Likuisolid Piroksikam (Kp)			
	Formula I	Formula II	Formula III	Formula IV
1	16,36	10,82	11,58	13,21
2	15,86	10,7	10,89	12,84
3	16,3	9,25	11,58	12,4
4	13,72	11,39	11,7	12,65
5	16,3	10,01	11,07	12,77
6	16,3	11,26	11,39	12,4
Rata-rata ± SD	15,81 ± 1,03	10,57 ± 0,81	11,36 ± 0,32	13,43 ± 0,31
SD rel (%)	6,57	7,67	2,83	2,40

LAMPIRAN D

HASIL UJI KERAPUHAN TABLET LIKUISOLID PIROKSIKAM

Formula	Replikasi	Berat awal (gram)	Berat akhir (gram)	Kerapuhan (%)	Rata-rata ±SD	SDrel (%)
A	I	13,6	13,4	1,52	0,51 ± 0,87	170,67
	II	13,139	13,139	0		
	III	13,159	13,157	0,015		
B	I	12,92	12,89	0,03	0,03 ± 0,01	33,33
	II	12,72	12,70	0,02		
	III	12,78	12,77	0,04		
C	I	12,98	12,94	0,04	0,03 ± 0,01	52,92
	II	12,90	12,885	0,015		
	III	12,83	12,81	0,02		
D	I	12,87	12,85	0,02	0,02 ± 0,01	24,74
	II	12,71	12,69	0,02		
	III	12,85	12,82	0,03		

LAMPIRAN E

HASIL UJI WAKTU HANCUR TABLET LIKUISOLID PIROKSIKAM

Replikasi	Waktu Hancur (menit)			
	Formula A	Formula B	Formula C	Formula D
I	2	2	3	2
II	1	2	2	3
III	1	2	2	3
Rata-rata ±SD	1,33±0,58	2,0±0	2,33 ±0,58	2,67 ±0,58

LAMPIRAN F

HASIL UJI KERAGAMAN BOBOT TABLET LIKUISOLID PIROKSIKAM

Hasil Uji Keragaman Bobot Tablet Formula A

No	Replikasi I		Replikasi II		Replikasi III	
	Bobot Tablet (mg)	Y (%)	Bobot Tablet (mg)	Y (%)	Bobot Tablet (mg)	Y (%)
1	668,3	96,76	661,3	95,16	664,3	96,45
2	677,2	98,05	663,2	95,43	665,1	96,57
3	666,8	96,55	655,0	94,25	666,2	96,73
4	663,7	96,10	634,9	91,36	649,4	94,29
5	674,4	97,65	653,2	93,99	651,2	94,55
6	656,0	94,98	678,3	97,61	662,0	96,12
7	667,8	96,69	659,0	94,83	663,5	96,34
8	675,9	97,86	656,3	94,44	651,0	94,52
9	674,7	97,69	661,6	95,20	648,8	94,20
10	668,4	96,78	638,1	91,82	640,6	93,01
Rata-rata	669,32	96,91	656,09	94,41	656,21	95,28
SD		0,94		1,79		1,31
SDrel(%)		0,97		1,90		1,37

Hasil Uji Keragaman Bobot Tablet Formula B

No	Replikasi I		Replikasi II		Replikasi III	
	Bobot Tablet (mg)	Y (%)	Bobot Tablet (mg)	Y (%)	Bobot Tablet (mg)	Y (%)
1	655,6	96,25	654,4	95,66	645,0	94,86
2	655,8	96,28	648,8	94,84	654,9	96,32
3	659,1	96,76	635,6	92,91	646,6	95,10
4	648,7	95,23	654,2	95,63	648,2	95,33
5	657,2	96,48	652,3	95,35	655,6	96,42
6	646,4	94,90	650,2	95,05	668,4	98,31
7	647,2	95,01	637,0	93,12	648,2	95,33
8	648,9	95,26	655,2	95,78	649,6	95,54
9	641,4	94,16	647,1	94,59	655,1	96,35
10	641,4	94,16	646,3	94,48	650,9	95,73
Rata-rata	650,17	95,45	648,11	94,74	652,25	95,93
SD		0,94		1,01		1,00
SDrel(%)		0,99		1,07		1,04

Hasil Uji Keragaman Bobot Tablet Formula C

No	Replikasi I		Replikasi II		Replikasi III	
	Bobot Tablet (mg)	Y (%)	Bobot Tablet (mg)	Y (%)	Bobot Tablet (mg)	Y (%)
1	649,8	97,53	641,8	95,26	647,0	97,69
2	657,4	98,67	651,1	96,64	649,8	98,12
3	658,9	98,89	655,5	97,30	647,6	97,78
4	650,2	97,59	651,0	96,63	647,2	97,72
5	650,7	97,66	652,5	96,85	648,8	97,97
6	660,8	99,18	654,0	97,07	648,1	97,86
7	652,6	97,95	639,1	94,86	646,2	97,57
8	656,4	98,52	658,4	97,73	650,4	98,21
9	660,0	99,06	652,7	96,88	646,9	97,68
10	661,3	99,25	659,4	97,88	651,0	98,30
Rata-rata	655,81	98,43	651,55	96,71	648,3	97,89
SD		0,69		0,97		0,25
SDrel(%)		0,70		1,00		0,25

Hasil Uji Keragaman Bobot Tablet Formula D

No	Replikasi I		Replikasi II		Replikasi III	
	Bobot Tablet (mg)	Y (%)	Bobot Tablet (mg)	Y (%)	Bobot Tablet (mg)	Y (%)
1	656,0	98,68	647,9	98,90	632,7	96,76
2	656,0	98,68	646,5	98,69	650,9	99,55
3	657,2	98,86	647,7	98,87	649,5	99,33
4	648,4	97,53	648,7	99,02	649,0	99,26
5	656,3	98,72	646,6	98,70	647,8	99,07
6	658,2	99,01	646,3	98,66	652,9	99,85
7	653,9	98,36	649,4	99,13	661,0	101,09
8	656,2	98,71	652,4	99,59	650,8	99,53
9	655,5	98,60	646,8	98,73	654,5	100,10
10	659,8	99,25	648,7	99,02	650,3	99,46
Rata-rata	655,75	98,64	548,1	98,93	649,94	99,4
SD		0,46		0,28		1,09
SDrel(%)		0,46		0,29		1,10

LAMPIRAN G

HASIL UJI KESERAGAMAN KANDUNGAN TABLET LIKUISOLID PIROKSIKAM

Hasil Uji Keragaman Kandungan Tablet Formula A Replikasi I

Abs	C sampel	W sampel	C teoritis	Kadar (%)
0,455	5,58	651,6	6,01	92,78
0,456	5,59	665,3	6,14	91,08
0,452	5,54	657,7	6,07	91,29
0,464	5,70	656,7	6,06	93,97
0,45	5,52	656,7	6,06	91,01
0,456	5,59	651,3	6,01	93,04
0,461	5,66	653,5	6,03	93,79
0,458	5,62	633,3	5,85	96,12
0,474	5,82	649,9	6,00	97,09
0,48	5,90	655,5	6,05	97,53
			Rata-rata	93,77
			SD	2,43
			KV	2,59

Hasil Uji Keragaman Kandungan Tablet Formula A Replikasi II

Abs	C sampel	W sampel	C teoritis	Kadar (%)
0,456	5,59	651,3	6,01	93,04
0,458	5,62	647,2	5,97	94,06
0,45	5,52	653,9	6,04	91,40
0,451	5,53	658,3	6,08	91,00
0,442	5,41	629,3	5,81	93,20
0,454	5,57	640,5	5,91	94,18
0,461	5,66	645,3	5,96	94,98
0,458	5,62	651,2	6,01	93,48
0,456	5,59	650,5	6,00	93,15
0,454	5,57	647,3	5,98	93,19
			Rata-rata	93,17
			SD	1,21
			KV	1,29

Hasil Uji Keragaman Kandungan Tablet Formula A Replikasi III

Abs	C sampel	W sampel	C teoritis	Kadar (%)
0,465	5,71	643,3	5,94	96,14
0,466	5,72	659,6	6,09	93,98
0,447	5,48	640,6	5,91	92,64
0,456	5,59	663,5	6,12	91,33
0,462	5,67	652,8	6,03	94,10
0,459	5,63	653,7	6,03	93,34
0,461	5,66	652,8	6,03	93,89
0,457	5,61	647,3	5,98	93,83
0,465	5,71	651,4	6,01	94,95
0,463	5,68	649,8	6,00	94,75
			Rata-rata	93,89
			SD	1,31
			KV	1,39

Hasil Uji Keragaman Kandungan Tablet Formula B Replikasi I

Abs	C sampel	W sampel	C teoritis	Kadar (%)
0,449	5,50	649,5	6,00	91,80
0,453	5,56	651,7	6,02	92,34
0,452	5,54	658	6,07	91,25
0,457	5,61	646,8	5,97	93,90
0,448	5,49	637,5	5,88	93,31
0,467	5,73	646,5	5,97	96,09
0,459	5,63	638,7	5,90	95,53
0,453	5,56	647,9	5,98	92,89
0,452	5,54	647,2	5,97	92,77
0,462	5,67	648,4	5,99	94,74
			Rata-rata	93,46
			SD	1,59
			KV	1,70

Hasil Uji Keragaman Kandungan Tablet Formula B Replikasi II

Abs	C sampel	W sampel	C teoritis	Kadar (%)
0,455	5,58	641,1	5,92	94,30
0,448	5,49	635,2	5,86	93,65
0,449	5,50	647,9	5,98	92,03
0,457	5,61	656,4	6,06	92,53
0,463	5,68	641,6	5,92	95,96
0,451	5,53	648,9	5,99	92,31
0,453	5,56	648,7	5,99	92,77
0,446	5,47	651,2	6,01	90,92
0,448	5,49	649,3	5,99	91,62
0,458	5,62	647,8	5,98	93,97
			Rata-rata	93,01
			SD	1,48
			KV	1,59

Hasil Uji Keragaman Kandungan Tablet Formula B Replikasi III

Abs	C sampel	W sampel	C teoritis	Kadar (%)
0,435	5,32	623,3	5,75	92,54
0,451	5,53	648,5	5,99	92,37
0,445	5,45	647,9	5,98	91,17
0,462	5,67	656,4	6,06	93,59
0,461	5,66	641,6	5,92	95,53
0,459	5,63	640,6	5,91	95,24
0,465	5,71	637,5	5,88	97,02
0,449	5,50	646,5	5,97	92,23
0,452	5,54	647,1	5,97	92,79
0,450	5,52	651,3	6,01	91,76
			Rata-rata	93,42
			SD	1,89
			KV	2,03

Hasil Uji Keragaman Kandungan Tablet Formula C Replikasi I

Abs	C sampel	W sampel	C teoritis	Kadar (%)
0,454	5,57	641,8	5,92	93,98
0,484	5,95	649,7	6,00	99,26
0,463	5,68	641	5,92	96,05
0,449	5,50	645,9	5,96	92,31
0,448	5,49	641,3	5,92	92,76
0,459	5,63	646,8	5,97	94,33
0,467	5,73	637,5	5,88	97,45
0,469	5,76	646,5	5,97	96,52
0,473	5,81	638,7	5,90	98,57
0,462	5,67	647,9	5,98	94,81
			Rata-rata	95,61
			SD	2,37
			KV	2,47

Hasil Uji Keragaman Kandungan Tablet Formula C *Replikasi* II

Abs	C sampel	W sampel	C teoritis	Kadar (%)
0,452	5,54	650,1	6,00	92,36
0,457	5,61	649,5	6,00	93,51
0,465	5,71	646,7	5,97	95,64
0,468	5,75	657,0	6,06	94,77
0,457	5,61	650,5	6,00	93,37
0,474	5,82	647,8	5,98	97,40
0,461	5,66	643,5	5,94	95,25
0,452	5,54	651,5	6,01	92,16
0,468	5,75	647,2	5,97	96,21
0,467	5,73	643,7	5,94	96,51
			Rata-rata	92,36
			SD	1,79
			KV	1,94

Hasil Uji Keragaman Kandungan Tablet Formula C Replikasi III

Abs	C sampel	W sampel	C teoritis	Kadar (%)
0,460	5,64	648,6	5,99	94,28
0,462	5,67	644,6	5,95	95,30
0,467	5,73	647,2	5,97	95,99
0,473	5,81	644,4	5,95	97,70
0,450	5,52	641,8	5,92	93,12
0,481	5,91	640,9	5,92	99,97
0,449	5,50	646,3	5,97	92,26
0,461	5,66	649,2	5,99	94,41
0,458	5,62	647,1	5,97	94,07
0,462	5,67	649,5	6,00	94,58
			Rata-rata	95,17
			SD	2,25
			KV	2,37

Hasil Uji Keragaman Kandungan Tablet Formula D *Replikasi* I

Abs	C sampel	W sampel	C teoritis	Kadar (%)
0,483	5,94	656,0	6,06	98,09
0,450	5,52	640,3	5,91	93,34
0,477	5,86	644,5	5,95	98,55
0,459	5,63	641,1	5,92	95,17
0,470	5,77	642,3	5,93	97,37
0,462	5,67	648,9	5,99	94,67
0,479	5,89	640,6	5,91	99,58
0,468	5,75	643,3	5,94	96,79
0,452	5,54	652,8	6,03	91,98
0,472	5,80	653,7	6,03	96,10
			Rata-rata	96,16
			SD	2,39
			KV	2,49

Hasil Uji Keragaman Kandungan Tablet Formula D Replikasi II

Abs	C sampel	W sampel	C teoritis	Kadar (%)
0,475	5,84	647,8	5,98	97,62
0,453	5,56	641,2	5,92	93,86
0,485	5,97	648,0	5,98	99,73
0,464	5,70	640,1	5,91	96,40
0,471	5,79	641,7	5,92	97,68
0,473	5,81	637,5	5,88	98,76
0,481	5,91	647,8	5,98	98,90
0,469	5,76	650,2	6,00	95,97
0,480	5,90	651,2	6,01	98,17
0,462	5,67	641,3	5,92	95,79
			Rata-rata	97,29
			SD	1,77
			KV	1,82

Hasil Uji Keragaman Kandungan Tablet Formula D Replikasi III

Abs	C sampel	W sampel	C teoritis	Kadar (%)
0,492	6,06	650,3	6,00	100,87
0,484	5,95	655,3	6,05	98,41
0,445	5,45	648,9	5,99	91,03
0,454	5,57	637,9	5,89	94,56
0,478	5,88	656,7	6,06	96,93
0,482	5,93	649,1	5,99	98,92
0,467	5,73	645,2	5,96	96,29
0,459	5,63	652,1	6,02	93,57
0,461	5,66	651,4	6,01	94,09
0,472	5,80	648,9	5,99	96,81
			Rata-rata	96,15
			SD	3,07
			KV	3,19

LAMPIRAN H

HASIL PENETAPAN KADAR TABLET LIKUISOLID PIROKSIKAM

Replikasi I

Formula	Replikasi	Absorbansi	Csampel (µg/ml)	Cteoritis (µg/ml)	Kadar (%)	Rata-rata ±SD	SD rel (%)
A	I	0,458	5,62	5,85	96,12	96,91 ± 0,72	0,74
	II	0,474	5,82	6,00	97,09		
	III	0,480	5,90	6,05	97,53		
B	I	0,467	5,73	5,97	96,09	95,45 ± 0,68	0,71
	II	0,459	5,63	5,90	95,53		
	III	0,462	5,67	5,99	94,74		
C	I	0,484	5,95	6,00	99,26	98,43 ± 0,91	0,93
	II	0,467	5,73	5,88	97,45		
	III	0,473	5,81	5,90	98,57		
D	I	0,483	5,94	6,06	98,09	98,74 ± 0,76	0,77
	II	0,477	5,86	5,95	98,55		
	III	0,479	5,89	5,91	99,58		

Replikasi II

Formula	Replikasi	Absorbansi	Csampel (µg/ml)	Cteoritis (µg/ml)	Kadar (%)	Rata-rata ±SD	SD rel (%)
A	I	0,458	5,62	5,97	94,06	94,41 ± 0,50	0,53
	II	0,454	5,57	5,91	94,18		
	III	0,461	5,66	5,96	94,98		
B	I	0,455	5,58	5,92	94,30	94,74 ± 1,07	1,13
	II	0,463	5,68	5,92	95,96		
	III	0,458	5,62	5,98	93,97		
C	I	0,474	5,82	5,98	97,40	96,71 ± 0,62	0,64
	II	0,468	5,75	5,97	96,21		
	III	0,467	5,73	5,94	96,51		
D	I	0,485	5,97	5,98	99,73	98,93 ± 0,78	0,79
	II	0,481	5,91	5,98	98,90		
	III	0,480	5,90	6,01	98,17		

Replikasi III

Formula	Replikasi	Absorbansi	Csampel (µg/ml)	Cteoritis (µg/ml)	Kadar (%)	Rata-rata±SD	SD rel (%)
A	I	0,465	5,71	5,94	96,14	95,28 ± 0,75	0,79
	II	0,465	5,71	6,01	94,95		
	III	0,463	5,68	6,00	94,75		
B	I	0,461	5,66	5,92	95,53	95,93 ± 0,96	1,00
	II	0,459	5,63	5,91	95,24		
	III	0,465	5,71	5,88	97,02		
C	I	0,467	5,73	5,97	95,99	97,89 ± 2,00	2,04
	II	0,473	5,81	5,95	97,70		
	III	0,481	5,91	5,92	99,97		
D	I	0,492	6,06	6,00	100,87	99,40 ± 1,30	1,31
	II	0,484	5,95	6,05	98,41		
	III	0,482	5,93	5,99	98,92		

LAMPIRAN I

HASIL UJI DISOLUSI TABLET LIKUISOLID PIROKSIKAM FORMULA A

Replikasi	t	A	Csampel	Csesungguhnya	Wt	%obat terlarut	AUC
A	5	0,180	2,06	2,06	1,85	9,54	3,645
	10	0,371	4,50	4,50	4,05	20,91	14,75
	20	0,626	7,77	7,77	7,00	36,09	55,25
	30	0,248	2,93	11,71	10,54	54,36	87,7
	45	0,265	3,14	12,58	11,32	58,41	163,95
	60	0,310	3,72	14,89	13,40	69,13	185,4
							510,695
B	5	0,230	2,70	2,70	2,43	12,85	4,275
	10	0,263	3,12	3,12	2,81	14,87	13,1
	20	0,745	9,30	9,30	8,37	44,32	55,9
	30	0,301	3,61	12,02	10,82	57,29	95,95
	45	0,328	3,95	15,81	14,23	75,36	187,875
	60	0,354	4,29	17,14	15,43	81,71	222,45
							579,55

C	5	0,241	2,84	2,84	2,55	13,40	4,425
	10	0,298	3,57	3,57	3,21	16,85	14,4
	20	0,673	8,38	8,38	7,54	39,56	53,75
	30	0,257	3,04	12,17	10,95	57,47	92,45
	45	0,295	3,53	14,12	12,71	66,68	177,45
	60	0,343	4,14	16,58	14,92	78,30	207,225
							549,7

HASIL UJI DISOLUSI TABLET LIKUISOLID PIROKSIKAM FORMULA B

Replikasi	t	A	Csampel	Csesungguhnya	Wt	%obat terlarut	AUC
A	5	0,264	3,13	3,13	2,82	14,77	5,31
	10	0,481	5,91	5,91	5,32	27,88	20,35
	20	0,690	8,59	8,59	7,73	40,51	65,25
	30	0,293	3,50	14,02	12,61	66,08	101,7
	45	0,328	3,95	15,81	14,23	74,54	201,3
	60	0,364	4,41	17,66	15,89	83,24	225,9
							619,81
B	5	0,255	3,02	3,02	2,72	14,33	5,52
	10	0,470	5,77	5,77	5,20	27,42	19,8
	20	0,739	9,22	9,22	8,30	43,80	67,5
	30	0,290	3,47	13,86	12,48	65,84	103,9
	45	0,337	4,07	16,27	14,64	77,29	203,4
	60	0,359	4,35	17,40	15,66	82,65	227,25
							627,37

C	5	0,249	2,94	2,94	2,65	13,79	4,935
	10	0,468	5,75	5,75	5,17	26,96	19,55
	20	0,686	8,54	8,54	7,69	40,07	64,3
	30	0,283	3,38	13,50	12,15	63,34	99,2
	45	0,329	3,97	15,86	14,28	74,41	198,225
	60	0,357	4,32	17,30	15,57	81,14	223,875
							610,085

HASIL UJI DISOLUSI TABLET LIKUISOLID PIROKSIKAM FORMULA C

Replikasi	t	A	Csampel	Csesungguhnya	Wt	%obat terlarut	AUC
A	5	0,655	8,14	8,14	7,33	37,24	16,5
	10	0,698	8,70	8,70	7,83	39,76	42,1
	20	0,342	4,13	16,53	14,88	75,56	126,15
	30	0,368	4,47	17,86	16,08	81,66	171,95
	45	0,389	4,73	18,94	17,04	86,58	276
	60	0,420	5,13	20,53	18,48	93,85	296,025
							928,73
B	5	0,674	8,39	8,39	7,55	39,03	16,305
	10	0,718	8,95	8,95	8,06	41,66	43,35
	20	0,318	3,82	15,30	13,77	71,18	121,25
	30	0,342	4,13	16,53	14,88	76,91	159,15
	45	0,391	4,76	19,04	17,14	88,60	266,775
	60	0,399	4,86	19,45	17,51	90,51	288,675
							895,51

C	5	0,656	8,16	8,16	0,656	37,50	16,11
	10	0,715	8,91	8,91	0,715	40,98	42,675
	20	0,324	3,90	15,61	0,324	71,74	122,6
	30	0,364	4,41	17,66	0,364	81,17	166,35
	45	0,398	4,85	19,40	0,398	89,18	277,95
	60	0,404	4,93	19,71	0,404	90,60	293,325
							919,01

HASIL UJI DISOLUSI TABLET LIKUISOLID PIROKSIKAM FORMULA D

Replikasi	t	A	Csampel	Csesungguhnya	Wt	%obat terlarut	AUC
A	5	0,668	8,31	8,31	7,48	37,88	15,915
	10	0,294	3,52	14,07	12,66	64,11	50,35
	20	0,370	4,49	17,96	16,17	81,87	144,15
	30	0,401	4,89	19,55	17,60	89,12	168,85
	45	0,427	5,22	20,89	18,80	95,19	273
	60	0,443	5,43	21,71	19,54	98,93	287,55
							939,82
B	5	0,681	8,48	8,48	7,63	38,56	16,11
	10	0,298	3,57	14,27	12,84	64,92	51,175
	20	0,370	4,49	17,96	16,17	81,71	145,05
	30	0,393	4,79	19,14	17,23	87,08	167
	45	0,431	5,27	21,09	18,98	95,94	271,575
	60	0,439	5,38	21,50	19,35	97,81	287,475
							938,39

C	5	0,678	8,44	8,44	7,60	38,21	16,155
	10	0,303	3,63	14,53	13,08	65,77	51,7
	20	0,368	4,47	17,86	16,08	80,86	145,8
	30	0,403	4,91	19,66	17,69	88,99	168,85
	45	0,435	5,32	21,30	19,17	96,42	276,45
	60	0,450	5,52	22,07	19,86	99,90	292,725
							951,68

LAMPIRAN J

Contoh Perhitungan

Contoh perhitungan sudut diam:

Formula A:

W persegi panjang = 1,8119 gram

W lingkaran = 0,556 gram

Luas persegi panjang = 360,96 cm^2

Luas lingkaran $= \frac{0,556}{1,8819} \times 360,96 = 109,63\ cm^2$

$L = \pi.r^2$

$r^2 = \frac{L}{\pi}$

$= \frac{109,63}{3,1}$

$r = 5,9$ cm

$tg\ \alpha = \frac{t}{r} = \frac{2,525}{5,9}$

$\alpha = 23,17°$

Contoh perhitungan indeks kompresibilitas:

Formula A :

Berat gelas = 126,29 g (W_1)

Berat gelas + granul = 168,70 g (W_2)

V_1 = 100 ml

V_2 = 85 m

Bj nyata = $\frac{(W_2 - W_1)}{V_1} = \frac{168{,}70 - 126{,}29)}{100} = 0{,}4241$

Bj mampat = $\frac{(W_2 - W_1)}{V_2} = \frac{(168{,}70 - 126{,}29)}{85} = 0{,}4989$

% kompresibilitas = $\left(1 - \frac{\text{Bj.nyata}}{\text{Bj.mampat}}\right) x100\% = 15{,}0\%$

Contoh perhitungan akurasi & presisi:

%	Bahan aktif (mg)	PEG 400	Matriks (mg)	HCl 0,1 N ad	Pipet	HCL 0,1 N ad	Konsentrasi (ppm)
100	20	47	583	500	1,5	10	6

Absorbansi = 0,459 → y = 0,078x + 0,0197

Konsentrasi sebenarnya = 5,63 ppm

Konsentrasi teoritis = 6,03 ppm

% perolehan kembali = (konsentrasi sebenarnya / konsentrasi teoritis) x 100%

= (5,62/ 6,03) x 100%

= 93,40%

Untuk menghitung % KV $= \frac{SD}{\overline{X}} x100\%$

$= \frac{1,6189}{99,47} x100\%$

= 1,6275 %

Contoh perhitungan % obat terlepas:

% obat terlepas = $\frac{Wt}{\frac{PK}{100} \times dosis} \times 100\%$

Formula A replikasi 1 pada t = 5 menit

% obat terlepas = $\frac{1,85}{\frac{96,91}{100} \times 20} \times 100\% = 9,54\%$

Contoh perhitungan AUC pada disolusi:

Rumus: $\frac{W_{tn} + W_{tn-1}}{2} x(t_n - t_{n-1})$

Formula A *replikasi* 1

Wt_{n-1} = 0,58

Wt_n = 1,85

t_n = 5 menit

t_{n-1} = 3 menit

AUC = $\frac{1,85 + 0,58}{2} x(5-2)$

= 3,645

Luas □ = 60 x penetapan kadar x dosis

= 60 x 96,91% x 20 mg

= 1162,92

% ED Formula A *replikasi* 1= (∑ AUC / luas □) x 100%

= (511,275/1162,92) x 100%

= 43,96 %

LAMPIRAN K

Sertifikat Analisis Piroksikam

南通精华制药股份有限公司检验报告

NANTONG JINGHUA PHARMACEUTICAL CO. LTD.

CERTIFICATE OF ANALYSIS

APIs.ADD:43 Yaogang Road,Nantong Jiangsu China
Tel:86-513-85609405/85609406

17/7 '09 PD 1150 = 25 kg

吡 罗 昔 康

PIROXICAM MICRONIZED

Batch No.	PRX2009005M	Manufacture Date	2009.3.4
Total Quantity	200.0KG	Report Date	2009.3.5
Commercial Quantity	200.0KG	Re-test Date	2012.3.3
Inspection No.	09030020		

TEST	SPECIFICATIONS (USP)	RESULTS
Characteristics	off-white to light tan or light yellow odorless powder	Complies
Identification	A. IR B. UV C. TLC	Complies
Water	≤0.5%	0.32%
Residue on ignition	≤0.3%	0.14%
Heavy metals	≤0.005%	<0.005%
Organic volatile impurities	complies	Complies
Residual solvents	Ethanol ≤0.5%	<0.5%
Particle size	100%≤1000mesh	Complies
Assay	97.0~103.0%	99.46%

Conclusion The product meets the requirements of USP 31 and the additional items defined by customer

Analyst 陈彦 2009.3.5 Supervisor 检验部 2009.3.5 Chief of Laboratory 2009.3.5

QA Release Date 2009.3.5

Sertifikat Analisis Avicel PH 102

ASAHI KASEI CHEMICALS CORPORATION

Date: 28-AUG-2009

Issued by manufacturer

1-105 Kanda Jinbocho, Chiyoda-ku, TOKYO 101-8101, JAPAN
TEL +81-(0)3-3296-3361 FAX +81-(0)3-3296-3467
Manufacturing site: 304, Mizushiri-machi, Nobeoka-city, Miyazaki 882-0015, Japan

YOUR NO.: BYUE-09-5298-0078

104/13 13/1 10

CERTIFICATE OF ANALYSIS

Compendial name: Microcrystalline Cellulose, NF, Ph. Eur., JP

Trade name : **CEOLUS®**

Grade : **PH-102** **Lot No. 2965 (183bags)**

Manufacturing Date: 24-JUN-2009
Re-evaluation Date: 24-JUN-2012

Organic Solvent: not used in our process

Compendial Standards	**Specifications**	**Lot Analysis**
Description	Passes	Passes
Identification	Passes	Passes
Degree of polymerization	100 - 300	Passes
Loss on drying (%)	2.0 - 5.0	3.5
Water-soluble substances (mg)	NMT 12.5	5.6
Ether-soluble substances (mg)	NMT 5.0	1.1
Conductivity (μ S/cm)	NMT 75	26
Heavy metals (ppm)	NMT 10	NMT 10
Solubility	Passes	Passes
Residue on ignition (%)	NMT 0.1	0.02
Bulk density (g/cm^3)	0.28 - 0.33	0.316
pH	5.0 - 7.5	6.1
Total aerobic microbial count (cfu/g)	NMT 1000	Passes
Tota' combined molds and yeasts count (cfu/g)	NMT 100	Passes
Escherichia coli	None Present	None Present
Salmonella species	None Present	None Present
Pseudomonas Aeruginosa	None Present	None Present
Staphylococcus Aureus	None Present	None Present
ASAHI Standards		
Particle size, wt. % >250 μ m (60 mesh)	LT 8.0	0.3
Particle size, wt. % >150 μ m (100 mesh)	20 - 40	29

NMT --Not More Than; LT --Less Than
We certify that the product complies with the standards of the NF, Ph. Eur., JP.
Storage conditions: Store at ambient conditions. Keep containers sealed; material is hygroscopic.

Re-evaluation Date: Three years after manufacturing, if stored as recommended.
Asahi Kasei Chemicals recommends that the customer's quality control unit may re-evaluate the quality of this material at the given time e.g. for loss on drying and extend the shelf life of this batch on its own responsibility.

Shuji ONISHI
Manager
Quality Assurance Section
CEOLUS Production Department

Sertifikat Analisis Magnesium Stearat

PETER GREVEN
Partner der Industrie

QUALITÄTSMANAGEMENT

CERTIFICATE OF ANALYSIS

customer: PT BRATACO
contact person:
FAX:
your order-number: PTB0735/V1104 our order-number: 4011746
delivered on: 04.08.2004 quantity: 9000
brand: LIGA MAGNESIUM STEARATE MF-2-V VEGETABLE charge-no. C447176
manufacturing date: 2004-07-19 expiry date: 2006-07-19

product is in accordance with the USP27/NF22/BP2003/Ph.Eur 4rd ed./DAB10/JP 14th. ed./FCC 5th. ed.

parameter	unit	method	result
ntification A	oC	Ph.Eur	59
ation A	metal reaction	USP/NF	passes test
tification B	retention time GC	USP/NF	retentions match
idity or	ml 0,01N HCl	Ph.Eur	<0,5
talinity	ml 0.01 N NaOH	Ph.Eur	<0,5
avy metals as Pb	ppm	JP	<20
ad	ppm	BAE 300-B	<1
dmium	ppm	BAE 300-B	<1
ckel	ppm	BAE 300-B	<1
hloride	%	Ph.Eur	<0,1
ulphate	%	Ph.Eur	<0,5
id value of the fatty acid	mg KOH/g	Ph.Eur	204,8
olative content of stearic acid	%	USP/NF	65,1
l. cont. of stearic and palmetic acid	%	USP/NF	98,9
robic microbial count	cfu/g	USP/NF	<10
lds & Yeasts	cfu/g	USP/NF	105
cherichia coli	cfu/g	USP/NF	absent
monella Species	cfu/g	USP/NF	absent
ganic volatile impurties		USP/NF	meets USP/NF
es on drying	%	BAE 600	3,9
agnesium content	%	BAE 200 o	4,7
ee fatty acid	%	BAE 400	0,6
ave rosidue at 200 mesh	%	BAE 605	0,2
lk density tapped	g/ml	BAE 611a	0,32
ecific surface area BET	qm/g	USP/NF	10,0
ntamination		BAE 601	in accordance

Venlo, 27.08.04

datas of the obove mentioned delivery are based upon careful test according to the guidlines of our lity assurance system. They do not release the customer from entry control. Besides we do not garantee zial properties for concrete applications.
certificate was issued by EDV and does not bear a signature.

PT BRATACO
IMPORTER
MANUFACTURER
DISTRIBUTOR

Sertifikat Analisis *Sodium Starch Glycolat*

YUNG ZIP CHEMICAL IND. CO., LTD.
59, Yu Shih Road
Youth Industrial District
Tachia, Taiwan, 437
R. O. C.
TEL: 886-4-26818780, 26811344 FAX: 886-4-26812911

CERTIFICATE OF ANALYSIS

D S T

(Sodium Starch Glycolate)

Lot No.: SSGA02121 **Mfg. Date:** Nov. 29, 2007

Analysis Following USP 30-NF 25 **Exp. Date:** Nov. 28, 2010

ITEMS	SPECIFICATIONS	RESULTS
Description	A white, tasteless, odorless, relatively free-flowing powder.	Confirmed
Identification	USP 30/NF 25	Confirmed
Microbial limits	Salmonella E. Coli	Negative Negative
pH	Between 5.5 and 7.5	6.1
Loss on drying	Not more than 10.0 %	2.5 %
Iron	Not more than 0.002 %	Passed
Heavy metals	Not more than 0.002 %	Passed
Sodium chloride	Not more than 7.0 %	4.0 %
Sodium glycolate	Not more than 2.0 %	1.8 %
Assay	Sodium (Na) (2.8% to 4.2%)	3.2 %

Conclusion : Passed

Chien-Sheng Tsang
Director Quality Assurance

Date
12/28/2007/40053

LAMPIRAN L

Tabel Z

z	0	1	2	3	4	5	6	7	8	9
.0	.5000	.5040	.5080	.5120	.5160	.5199	.5239	.5279	.5319	.5359
.1	.5398	.5438	.5478	.5517	.5557	.5596	.5636	.5675	.5714	.5753
.2	.5793	.5832	.5871	.5920	.5948	.5987	.6026	.6064	.6103	.6141
.3	.6179	.6217	.6255	.6293	.6221	.6368	.6406	.6443	.6480	.6517
.4	.6554	.6591	.6628	.6664	.6700	.6736	.6772	.6808	.6844	.6879
.5	.6915	.6950	.6985	.7019	.7054	7088	.7123	.7157	.7190	.7224
.6	.7257	7291	7324	.7357	.7389	.7422	.7454	.7486	.7517	.7549
.7	.7580	.7611	.7642	.7673	.7703	.7734	.7764	.7794	.7823	.7852
.8	.7881	.7910	.7939	.7967	.7995	.8023	.8051	.8078	.8106	.8133
.9	.8159	.8186	.8212	.8238	.8264	.8289	.8215	.8340	.8365	.8389
1.0	.8413	.8438	.8461	.8485	.8508	.8531	.8554	.8577	.8599	.8621
1.1	.8643	.8665	.8686	.8708	.8729	.8749	.8770	.8790	.8810	.8830
1.2	.8849	.8869	.8888	.8907	.8925	.8944	.8962	.8980	.8997	.9015
1.3	.9032	.9049	.9066	.9082	.9099	.9115	.9131	.9147	.9162	.9177
1.4	.9192	.9207	.9222	.9236	.9251	.9265	.9278	.9292	.9306	.9319
1.5	.9332	.9345	.9357	.9370	.9382	.9394	.9406	.9418	.9430	.9441
1.6	.9452	.9463	.9474	.9484	.9495	.9505	.9615	.9525	.9535	.9545
1.7	.9554	.9564	.9573	.9582	.9591	.9599	.9608	.9616	.9625	.9633
1.8	.9641	.9648	.9656	.9664	.9671	.9678	.9686	.9693	.9700	.9706
1.9	.9713	.9719	.9726	.9732	.9738	.9744	.9750	.9756	.9762	.9767
2.0	.9772	.9778	.9783	.9788	.9792	.9798	.9803	.9808	.9812	.9817
2.1	.9821	.9826	.9830	.9834	.9838	.9842	.9846	.9850	.9854	.9857
2.2	.9861	.9864	.9868	.9871	.9874	.9878	.9881	.9884	.9887	.9890
2.3	.9893	.9896	.9898	.9901	.9904	.9906	.9909	.9911	.9913	.9916
2.4	.9918	.9920	.9922	.9925	.9927	.9929	.9931	.9932	.9934	.9936
2.5	.9938	.9940	.9941	.9943	.9945	.9946	.9948	.9949	.9951	.9952
2.6	.9953	.9955	.9956	.9957	.9959	.9960	.9961	.9962	.9963	.9964
2.7	.9965	.9966	.9967	.9968	.9969	.9970	.9971	.9972	.9973	.9974
2.8	.9974	.9975	.9976	.9977	.9977	.9978	.9979	.9979	.9980	.9981
2.9	.9981	.9982	.9982	.9983	.9984	.9984	.9985	.9985	.9986	.9986
3.	.9987	.9990	.9993	.9995	.9997	.9998	.9998	.9999	.9999	1.0000

z	0	1	2	3	4	5	6	7	8	9
-3.	.0013	.0010	.0007	.0005	.0003	.0002	.0002	.0001	.0001	.0000
-2.9	.0019	.0018	.0017	.0017	.0016	.0016	.0015	.0015	.0014	.0014
-2.8	.0026	.0025	.0024	.0023	.0023	.0022	.0021	.0021	.0020	.0019
-2.7	.0035	.0034	.0033	.0032	.0021	.0030	.0029	.0028	.0027	.0026
-2.6	.0047	.0045	.0044	.0043	.0041	.0040	.0039	.0038	.0037	.0036
-2.5	.0062	.0060	.0059	.0057	.0055	.0054	.0052	.0051	.0049	.0048
-2.4	.0082	.0080	.0078	.0075	.0073	.0071	.0069	.0068	.0066	.0064
-2.3	.0107	.0104	.0102	.0099	.0096	.0094	.0091	.0089	.0087	.0084
-2.2	.0139	.0136	.0132	.0129	.0126	.0122	.0119	.0116	.0113	.0110
-2.1	.0179	.0174	.0170	.0166	.0162	.0158	.0154	.0150	.0146	.0143
-2.0	.0228	.0222	.0217	.0212	.0207	.0202	.0197	.0192	.0188	.0183
-1.9	.0287	.0281	.0274	.0268	.0262	.0256	.0250	.0244	.0238	.0233
-1.8	.0359	.0352	.0344	.0336	.0329	.0322	.0314	.0307	.0300	.0294
-1.7	.0446	.0436	.0427	.0418	.0409	.0401	.0392	.0384	.0375	.0367
-1.6	.0548	.0537	.0526	.0516	.0505	.0495	.0485	.0475	.0465	.0455
-1.5	.0668	.0655	.0643	.0630	.0618	.0606	.0594	.0582	.0570	.0559
-1.4	.0800	.0793	.0778	.0764	.0749	.0735	.0722	.0708	.0694	.0681
-1.3	.0968	.0951	.0934	.0918	.0901	.0885	.0869	.0853	.0838	.0823
-1.2	.1151	.1131	.1112	.1093	.1075	.1056	.1038	.1020	.1003	.0985
-1.1	.1357	.1335	.1314	.1292	.1271	.1251	.1230	.1210	.1190	.1170
-1.0	.1587	.1562	.1539	.1515	.1492	.1469	.1446	.1423	.1401	.1379
-.9	.1841	.1814	.1788	.1762	.1736	.1711	.1685	.1660	.1635	.1611
-.8	.2119	.2090	.2061	.2033	.2005	.1977	.1949	.1922	.1894	.1867
-.7	.2420	.2389	.2358	.2327	.2297	.2266	.2236	.2206	.2177	.2148
-.6	.2743	.2709	.2676	.2643	.2611	.2578	.2546	.2514	.2483	.2451
-.5	.3085	.3050	.3015	.2981	.2946	.2912	.2877	.2843	.2810	.2776
-.4	.3446	.3409	.3372	.3336	.3300	.3264	.3228	.3192	.3156	.3121
-.3	.3821	.3783	.3745	.3707	.3669	.3632	.3594	.3557	.3520	.3483
-.2	.4207	.4168	.4129	.4090	.4052	.4013	.3974	.3936	.3897	.3859
-.1	.4602	.4562	.4522	.4483	.4443	.4404	.4364	.4325	.4286	.4247
-.0	.5000	.4960	.4920	.4880	.4840	.4801	.4761	.4721	.4681	.4641

Dikutip dari: Gennaro, A.R. (1970)

LAMPIRAN M

Tabel Uji r

DEGREES OF FREEDOM (DF)	5 PERCENT	1 PERCENT	DEGREES OF FREEDOM (DF)	5 PERCENT	1 PERCENT
1	.997	1.000	24	.388	.496
2	.950	.990	25	.381	.487
3	.878	.959	26	.374	.478
4	.811	.917	27	.367	.470
5	.754	.874	28	.361	.463
6	.707	.834	29	.355	.456
7	.666	.798	30	.349	.449
8	.632	.765	35	.325	.418
9	.602	.735	40	.304	.393
10	.576	.708	48	.288	.372
11	.553	.684	50	.273	.354
12	.532	.661	60	.250	.325
13	.514	.641	70	.232	.302
14	.497	.623	80	.217	.283
15	.482	.606	90	.205	.267
16	.468	.590	100	.195	.254
17	.456	.575	125	.174	.228
18	.444	.561	150	.159	.208
19	.433	.549	200	.138	.181
20	.423	.537	300	.113	.148
21	.413	.526	400	.098	.128
22	.404	.515	500	.088	.115
23	.396	.505	1000	.062	.081

Dikutip dari: Soedigdo & Soedigdo (1977)

LAMPIRAN N

Tabel Uji HSD (0,05)

d.k. \ k	2	3	4	5	6	7	8	9	10	11
5	3.64	4.60	5.22	5.67	6.03	6.33	6.58	6.80	6.99	7.17
6	3.46	4.34	4.90	5.30	5.63	5.90	6.12	6.32	6.49	6.65
7	3.34	4.16	4.68	5.06	5.36	5.61	5.82	6.00	6.16	6.30
8	3.26	4.04	4.53	4.89	5.17	5.40	5.60	5.77	5.92	6.05
9	3.20	3.95	4.41	4.76	5.02	5.24	5.43	5.59	5.74	5.87
10	3.15	3.88	4.33	4.65	4.91	5.12	5.30	5.46	5.60	5.72
11	3.11	3.82	4.26	4.57	4.82	5.03	5.20	5.35	5.49	5.61
12	3.08	3.77	4.20	4.51	4.75	4.95	5.12	5.27	5.39	5.51
13	3.06	3.73	4.15	4.45	4.69	4.88	5.05	5.19	5.32	5.43
14	3.03	3.70	4.11	4.41	4.64	4.83	4.99	5.13	5.25	5.36
15	3.01	3.67	4.08	4.37	4.59	4.78	4.94	5.08	5.20	5.31
16	3.00	3.65	4.05	4.33	4.56	4.74	4.90	5.03	5.15	5.26
17	2.98	3.63	4.02	4.30	4.52	4.71	4.86	4 99	5.11	5.21
18	2.97	3.61	4.00	4.28	4.49	4.67	4.82	4.96	5.07	5.17
19	2.96	3.59	3.98	4.25	4.47	4.65	4.79	4.92	5.04	5.14
20	2.95	3.58	3.96	4.23	4.45	4.62	4.77	4.90	5.01	5.11
24	2.92	3.53	3.90	4.17	4.37	4.54	4.68	4.81	4.92	5.01
30	2.89	3.49	3.85	4.10	4.30	4.46	4.60	4.72	4.82	4.92
40	2.86	3.44	3.79	4.04	4.23	4.39	4.52	4.63	4.73	4.82
60	2.83	3.40	3.74	3.98	4.16	4.31	4.44	4.55	4.65	4.73
120	2.80	3.36	3.68	3.92	4.10	4.24	4.36	4.47	4.56	4.64
∞	2.77	3.31	3.63	3.86	4.03	4.17	4.29	4.39	4.47	4.55

Catatan kaki: Dari *Annals of mathematical statistics.* Diulang cetak seizin penerbit, The Institute of Mathematical Statistics.

Sumber: Schefler (1987).

LAMPIRAN 0

HASIL UJI STATISTIK KEKERASAN TABLET ANTAR FORMULA

Anova: Single Factor

SUMMARY

Groups	*Count*	*Sum*	*Average*	*Variance*
Column 1	3	48,41	16,13667	0,080033
Column 2	3	29,68	9,893333	4,774433
Column 3	3	39,14	13,04667	7,940633
Column 4	3	44,13	14,71	3,3481

ANOVA

Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	64,85487	3	21,61829	5,35663	0,025713	4,066181
Within Groups	32,2864	8	4,0358			
Total	97,14127	11				

Keterangan:

Fhitung >Ftabel (3,8)= 4,07 sehingga H ditolak dan ada perbedaan yang bermakna antar formula.

Hasil Uji HSD

HSD = 4,058039

		FA	FB	FC		FD	
	Mean	**16,13667**	**9,893333**	**13,04667**		**14,71**	
FA	16,13667	0	-6,24333	-3,09	*	-1,42667	*
FB	9,893333		0	3,153333	*	4,816667	*
FC	13,04667			0		1,663333	*
FD	14,71					0	

* : Perbedaannya signifikan, karena selisihnya > niliai HSD

LAMPIRAN P

HASIL UJI STATISTIK WAKTU HANCUR ANTAR FORMULA

Anova: Single Factor

SUMMARY

Groups	*Count*	*Sum*	*Average*	*Variance*
Column 1	3	4	1,333333	0,333333
Column 2	3	6	2	0
Column 3	3	7	2,333333	0,333333
Column 4	3	8	2,666667	0,333333

ANOVA

Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	2,916667	3	0,972222	3,888889	0,055278	4,066181
Within Groups	2	8	0,25			
Total	4,916667	11				

Keterangan:
Fhitung < Ftabel (3,8)= 4,07 sehingga H diterima dan tidak ada perbedaan yang bermakna antar formula

LAMPIRAN Q

HASIL UJI STATISTIK KERAPUHAN ANTAR FORMULA

Anova: Single Factor

SUMMARY

Groups	*Count*	*Sum*	*Average*	*Variance*
Column 1	3	1,535	0,511667	0,762608
Column 2	3	0,09	0,03	0,0001
Column 3	3	0,075	0,025	0,000175
Column 4	3	0,07	0,023333	3,33E-05

ANOVA

Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	0,530542	3	0,176847	0,927216	0,470709	4,066181
Within Groups	1,525833	8	0,190729			
Total	2,056375	11				

Keterangan:

Fhitung < Ftabel (3,8)= 4,07 sehingga H diterima dan tidak ada perbedaan yang bermakna antarformula.

LAMPIRAN R

HASIL UJI STATISTIK DISTRIBUSI UKURAN PARTIKEL (d_g 50%) ANTAR FORMULA

Anova: Single Factor

SUMMARY

Groups	*Count*	*Sum*	*Average*	*Variance*
Column 1	3	301,13	100,3767	4,046033
Column 2	3	403,66	134,5533	10,82003
Column 3	3	323,15	107,7167	3,048433
Column 4	3	285,23	95,07667	5,635433

ANOVA

Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	2766,295	3	922,0984	156,6201	1,92E-07	4,066181
Within Groups	47,09987	8	5,887483			
Total	2813,395	11				

Keterangan:
Fhitung >Ftabel (3,8)= 4,07 sehingga H ditolak dan ada perbedaan yang bermakna antar formula.

Hasil Uji HSD

HSD = 4,90135

		FA	FB	FC		FD	
	Mean	**100,3767**	**134,5533**	**107,7167**		**95,07667**	
FA	100,376	0	34,17667	7,34	*	-5,3	*
FB	134,553		0	-26,8367	*	-39,4767	*
FC	107,716			0		-12,64	*
FD	95,0766					0	

* : Perbedaannya signifikan, karena selisihnya > niliai HSD

LAMPIRAN S

HASIL UJI STATISTIK PENETAPAN KADAR TABLET LIKUISOLID PIROKSIKAM ANTAR FORMULA

Anova: Single Factor

SUMMARY

Groups	*Count*	*Sum*	*Average*	*Variance*
Column 1	3	286,6	95,53333	1,6106333
Column 2	3	286,12	95,37333	0,3584333
Column 3	3	293,03	97,67667	0,7737333
Column 4	3	297,07	99,02333	0,1154333

ANOVA

Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	27,9307	3	9,310233	13,029354	0,001906	4,066181
Within Groups	5,716467	8	0,714558			
Total	33,64717	11				

Keterangan:

Fhitung >Ftabel (3,8)= 4,07 sehingga H ditolak dan ada perbedaan yang bermakna antar formula.

Hasil Uji HSD

HSD = 1,70753

		FA	FB	FC		FD	
	Mean	**95,53333**	**95,37333**	**97,67667**		**99,02333**	
FA	95,5333	0	-0,16	2,143333	*	3,49	*
FB	95,3733		0	2,303333	*	3,65	*
FC	97,6766			0		1,346667	*
FD	99,0233					0	

* : Perbedaannya signifikan, karena selisihnya > niliai HSD

LAMPIRAN T

HASIL UJI STATISTIK DISOLUSI BERDASARKAN %ED_{60} TABLET LIKUISOLID PIROKSIKAM ANTAR FORMULA

Anova: Single Factor

SUMMARY

Groups	*Count*	*Sum*	*Average*	*Variance*
Column 1	3	143,2698	47,75661	13,15506
Column 2	3	162,4968	54,16559	1,226545
Column 3	3	234,7027	78,23424	0,59332
Column 4	3	238,9391	79,64637	0,141782

ANOVA

Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	2413,111	3	804,3705	212,8427	5,74E-08	4,066181
Within Groups	30,23342	8	3,779178			
Total	2443,345	11				

Keterangan:

Fhitung > Ftabel (3,8)= 4,07 sehingga H ditolak dan ada perbedaan yang bermakna antarformula.

Hasil Uji HSD

HSD = 3,92690

		FA	FB	FC		FD	
	Mean	**47,75661**	**54,16559**	**78,23424**		**79,64637**	
FA	47,7566	0	6,408977	30,47763	*	31,88976	*
FB	54,1655		0	24,06865	*	25,48078	*
FC	78,2342			0		1,412131	*
FD	79,6463					0	

* : perbedaannya signifikan, karena selisihnya > nilai HSD

LAMPIRAN U

UJI F KURVA BAKU PENETAPAN KADAR

Uji Kesamaan Regresi (HCl)

REPLIKASI I

KONSENTRASI	ABSORBANSI	X^2	Y^2	XY
2,064	0,188	4,2601	0,0353	0,3880
4,128	0,388	17,0404	0,1505	1,6017
6,192	0,478	38,3409	0,2285	2,9598
8,256	0,624	68,1615	0,3894	5,1517
10,32	0,841	106,5024	0,7073	8,6791
		234,3053	1,5110	18,7803

REPLIKASI II

KONSENTRASI	ABSORBANSI	X^2	Y^2	XY
2,08	0,19	4,3264	0,0361	0,3952
4,16	0,346	17,3056	0,1197	1,4394
6,24	0,498	38,9376	0,2480	3,1075
8,32	0,649	69,2224	0,4212	5,3997
10,4	0,85	108,1600	0,7225	8,8400
		237,9520	1,5475	19,1818

REPLIKASI III

KONSENTRASI	ABSORBANSI	X^2	Y^2	XY
2,052	0,208	4,2107	0,0433	0,4268
4,104	0,377	16,8428	0,1421	1,5472
6,156	0,509	37,8963	0,2591	3,1334
8,208	0,692	67,3713	0,4789	5,6799
10,26	0,848	105,2676	0,7191	8,7005
		231,5887	1,6424	19,4878

	S X^2	SXY	S Y^2	N	SSi	RDF
Regresi I	234,3053	18,7803	1,5110	5	1,4309	4
Regresi II	237,9520	19,1818	1,5475	5	1,4669	4
Regresi III	231,5887	19,4878	1,6424	5	1,5583	4
	703,8460	57,4499	4,7010		4,4561	

Ssc = 4,619369117

F = 0,219867029 < Ftabek 0.05(2;12)