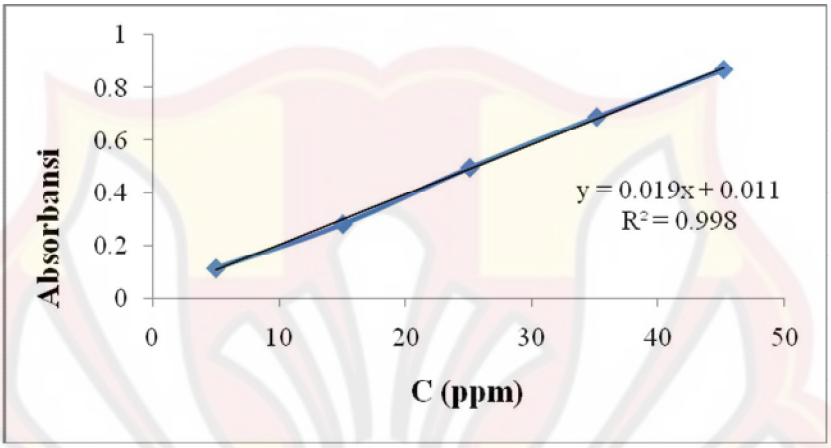
LAMPIRAN A

Hasil Uji Pembuatan Kurva baku

Hari	No	Konsentrasi (ppm)	Absobansi	Persamaan garis
I	1	5,03	0,113	Y= 0,0206x-0,0025
	2	15,09	0,294	R^2 = 0,9965
	3	25,15	0,500	r_{hitung}/r_{tabel}= 0,9982/0,878
	4	35,21	0,752	a = -0,0025 b = 0,0206
	5	45,27	0,921	r = 0,9982
II	1	5,01	0,097	y = 0,0193x – 0,0098
	2	15,03	0,263	R^2 = 0,9960
	3	25,05	0,466	r_{hitung}/r_{tabel}= 0,9980/0,878
	4	35,07	0,697	a = - 0,0098 b = 0,0193
	5	45,09	0,848	r = 0,9980
III	1	5,02	0,115	y = 0,0191x + 0,0113
	2	15,06	0,282	R^2 = 0,9987
	3	25,10	0,497	r_{hitung}/r_{tabel}= 0,9994/0,878
	4	35,14	0,691	a = 0,0113 b = 0,0191
	5	45,18	0,870	r = 0,9994

Haga koefisien korelasi yang didapat ≥ 0,99 harga F_{hitung} (0,0493) < F_{tabel} (0,878) sehingga tidak ada perbedaan yang bermakna antara ketiga persamaan diatas, maka dapat digunakan salah satu persamaan diatas. Persamaan yang digunakan adalah y = 0,0191x + 0,0113.



Gambar 4.2. Kurva hubungan serapan versus kadar larutan baku kerja Propranolol HCl dalam dapar fosfat isotonis pH 7,4.

LAMPIRAN B

PERHITUNGAN STATISTIK KURVA BAKU

Data Kurva Baku Propranolol HCl dalam Larutan Dapar Fosfat Isotonis pH 7,4 Pengujian I

Konsentrasi (ppm)	Absorbansi	X^2	Y^2	XY
5,03	0,113	25,3009	0,01277	0,56839
15,09	0,294	227,7081	0,08644	4,43646
25,15	0,5	632,5225	0,25	12,575
35,21	0,752	1239,744	0,5655	26,4779
45,27	0,921	2049,373	0,84824	41,6937
		∑=4174,649	∑=1,76295	∑=85,7514

Data Kurva Baku Propranolol HCl dalam Larutan Dapar Fosfat Isotonis pH 7,4 Pengujian II

Konsentrasi (ppm)	Absorbansi	X^2	Y^2	XY
5,01	0,097	25,1001	0,00941	0,48597
15,03	0,263	225,9009	0,06917	3,95289
25,05	0,466	627,5025	0,21716	11,6733
35,07	0,697	1229,905	0,48581	24,4438
45,09	0,848	2033,108	0,7191	38,2363
		∑=4141,517	∑=1,50065	∑=78,7923

Data Kurva Baku Propranolol HCl dalam Larutan Dapar Fosfat Isotonis pH 7,4 Pengujian III

Konsentrasi (ppm)	Absorbansi	X^2	Y^2	XY
5,02	0,115	25,2004	0,01323	0,5773
15,06	0,282	226,8036	0,07952	4,24692
25,1	0,497	630,01	0,24701	12,4747
35,14	0,691	1234,82	0,47748	24,2817
45,18	0,87	2041,232	0,7569	39,3066
		∑=4158,066	∑=1,57414	∑=80,8873

	ΣX^2	ΣY^2	ΣXY	N	Ssi	RDF
I	4174,649	1,76295	85,7514	5	1,7424	4
II	4141,517	1,50065	78,7923	5	1,4816	4
III	4158,066	1,57414	80,8873	5	1,5547	4
	12474,2320	4,8377	245,4310		4,7787	

SSc $= \sum Yc - [(\sum Xyc)^2 / \sum Xc]$

$= 4,8377 - [245,4310 / 12474,2320]$

$= 4,8181$

SSp $= SS1 + SS2 + SS3$

$= 1,7424 + 1,4816 + 1,5547$

$= 4,7787$

$F_{hitung} = (SSc - SSp / k - 1) / (SSp / 12)$

$= (4,8181 - 4,7787 / 3 - 1) / (4,7787 / 12) = 0,0495$

$F_{hitung} < F_{tabel}$ 0,05 (2 ; 12) =0,0495<3,88

LAMPIRAN C

PERHITUNGAN MOISTURE CONTENT (*MC*)
Formula -1

W (gram)	W_p (gram)	W_a (gram)	MC (%)
0,130	0,109	0,021	19,27
0,117	0,098	0,019	19,39
0,124	0,104	0,020	19,23

Formula a

W (gram)	W_p (gram)	W_a (gram)	MC (%)
0,238	0,180	0,062	32,22
0,220	0,165	0,055	33,33
0,246	0,185	0,061	32,97

Formula b

W (gram)	W_p (gram)	W_a (gram)	MC (%)
0,143	0,119	0,024	20,17
0,112	0,093	0,019	20,43
0,127	0,105	0,022	20,95

Formula ab

W (gram)	W_p (gram)	W_a (gram)	MC (%)
0,269	0,201	0,068	33.83
0,301	0,225	0,076	33,78
0,265	0,198	0,067	33,84

Keterangan :
W = berat mula-mula
W_p = berat kering (setelah dioven 100 ± 2^0C selama 6 jam)
Wa = selisih antara W dan W_p

$$MC = \frac{Wa}{Wp} \times 100\%$$

LAMPIRAN D

Anova: Single Factor

SUMMARY

Groups	*Count*	*Sum*	*Average*	*Variance*
Column 1	3	57,89	19,29667	0,006933
Column 2	3	98,52	32,84	0,3207
Column 3	3	61,55	20,51667	0,157733
Column 4	3	101,45	33,81667	0,001033

ANOVA

Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	544,0868	3	181,3623	1491,466	2,5E-11	4,066181
Within Groups	0,9728	8	0,1216			
Total	545,0596	11				

LAMPIRAN E

TABEL 4.4. HASIL AKURASI DAN PRESISI PENETAPAN KADAR PROPRANOLOL HCL DALAM LARUTAN DAPAR FOSFATISOTONIS PH 7,4 DALAM FORMULA BLANGKO AB

Rep	%	Abs	FP	C(ppm)	C(teoritis)	% perolehan kembali
1	80	0,466	2,5	59,5157	64,1408	107,7712
	100	0,619	2,5	79,5418	80,176	100,7973
	120	0,725	2,5	93,4162	96,2112	102,9919
2	80	0,472	2,5	60,3010	64,1408	106,3677
	100	0,623	2,5	80,0654	80,176	100,1381
	120	0,73	2,5	94,0706	96,2112	102,2755
3	80	0,461	2,5	58,8612	64,1408	108,9695
	100	0,625	2,5	80,3272	80,176	99,8117
	120	0,712	2,5	91,7146	96,2112	104,9028

Contoh perhitungan :
Dari hasil serapan dimasukan ke dalam persamaan kurva baku terpilih yaitu
y = 0,0191x + 0,0113
Dimana:
y = Serapan
x = Konsetrasi teramati
Kemudian Hitung % perolehan kembali dengan rumus :

$$\%\ \text{perolehan kembali} = \frac{Kadar\ teramati}{kadar\ teoritis} x\ 100\%$$

Misal : data replikasi 1
Y= 0,0191x + 0,0113
0,5471 = 0,0191x + 0,0113
x = 70,1335.
% perolehan kembali = (70,1335/69,8723) x 100% = 100,3739%

LAMPIRAN F

TABEL 4.5. HASIL PENETAPAN KADAR *PATCH* PROPRANOLOL HCL

Formula	Uji	Abs	FP	C (ppm)	C (mg/cm^2)	$\bar{x} \pm SD$	SD Rel (%)
-1	1	0,781	2	80,5969	4,0298	4,0280± 0,0236	0,5861
	2	0,776	2	80,0733	4,0037		
	3	0,785	2	81,0157	4,0507		
A	1	0,769	2	79,3403	3,9670	3,9931± 0,0366	0,9178
	2	0,771	2	79,5497	3,9775		
	3	0,782	2	80,7016	4,0351		
B	1	0,761	2	78,5026	3,9251	3,9443± 0,0247	0,6273
	2	0,763	2	78,7120	3,9356		
	3	0,77	2	79,4450	3,9722		
Ab	1	0,781	2	80,5969	4,0298	4,0281± 0,0236	0,5861
	2	0,776	2	80,0733	4,0037		
	3	0,785	2	81,0157	4,0508		

LAMPIRAN G

HASIL UJI AKURASI DAN PRESISI UNTUK UJI PELEPASAN DALAM DAPAR FOSFAT ISOTONIS PH 7,4 DALAM FORMULA AB

Replikasi	%	Abs	C (ppm)	C (Teoritis)	% Perolehan Kembali
1	50	0,287	14,4345	15,0330	96,0191
	75	0,419	21,3455	22,5495	94,6608
	100	0,569	29,1989	30,0660	97,1162
2	50	0,284	14,2774	15,0330	94,9743
	75	0,421	21,4502	22,5495	95,1252
	100	0,576	29,5654	30,0660	98,3352
3	50	0,291	14,6439	15,0330	97,4122
	75	0,434	22,1308	22,5495	98,1436
	100	0,572	29,3560	30,0660	97,6386

LAMPIRAN H

DATA PELEPASAN PROPRANOLOL HCL

1. Hasil Uji Pelepasan Patch Propranolol Formula -1

Replikasi	t(jam)	Abs	Cn'(ppm)	Qt (µg/cm^2)	Pengenceran
1	1	0,22	10,9267	226,1897	
	1,5	0,244	12,18325	252,201	
	2	0,33	16,68586	345,408	
	2,5	0,321	16,21466	335,6538	
	3	0,39	19,82723	410,4362	
	4	0,866	44,74869	926,3264	
	5	0,238	59,34555	1228,491	5x
	6	0,258	64,58115	1336,871	5x
2	1	0,231	11,50262	238,1115	
	1,5	0,26	13,02094	269,5418	
	2	0,314	15,84817	328,0672	
	2,5	0,337	17,05236	352,9946	
	3	0,461	23,5445	487,3862	
	4	0,766	39,51309	817,9461	
	5	0,244	60,91623	1261,005	5x
	6	0,286	71,91099	1488,603	5x
3	1	0,251	11,50262	259,7876	
	1,5	0,298	13,02094	310,7263	
	2	0,327	15,84817	342,1566	
	2,5	0,362	17,05236	380,0897	
	3	0,429	23,5445	452,7045	
	4	0,831	39,51309	888,3933	
	5	0,201	60,91623	1027,987	5x
	6	0,263	71,91099	1363,966	5x

Keterangan : Luas membran 3,14 cm^2

2. Hasil Uji Pelepasan Patch Propranolol Formula a

Replikasi	t(jam)	Abs	Cn'(ppm)	Qt (µg/cm^2)
1	1,5	0,119	5,638743	116,7256
	2	0,147	7,104712	147,0721
	2,5	0,189	9,303665	192,5918
	3	0,202	9,984293	206,6812
	4	0,513	26,26702	543,744
	5	0,603	30,97906	641,2862
	6	0,791	40,82199	845,0412
2	1,5	0,134	6,424084	132,9826
	2	0,185	9,094241	188,2566
	2,5	0,2	9,879581	204,5136
	3	0,34	17,20942	356,246
	4	0,614	31,55497	653,2081
	5	0,706	36,37173	752,9179
	6	0,852	44,01571	911,1532
3	1,5	0,148	7,157068	148,1559
	2	0,206	10,19372	211,0164
	2,5	0,231	11,50262	238,1115
	3	0,297	14,95812	309,6425
	4	0,412	20,97906	434,2799
	5	0,626	32,18325	666,2137
	6	0,799	41,24084	853,7116

Keterangan : Luas membran 3,14 cm^2

3. Hasil Uji Pelepasan Patch Propranolol Formula b

Replikasi	t(jam)	Abs	Cn'(ppm)	Qt ($\mu g/cm^2$)
1	0,75	0,15	7,26178	150,3235
	1	0,175	8,570681	177,4185
	1,5	0,204	10,08901	208,8488
	2	0,223	11,08377	229,4411
	2,5	0,28	14,06806	291,2179
	3	0,321	16,21466	335,6538
	4	0,352	17,8377	369,2517
	5	0,405	20,61257	426,6932
	6	0,583	29,93194	619,6102
2	0,75	0,125	5,95288	123,2284
	1	0,145	7	144,9045
	1,5	0,198	9,774869	202,346
	2	0,23	11,45026	237,0277
	2,5	0,279	14,01571	290,1341
	3	0,334	16,89529	349,7432
	4	0,365	18,51832	383,3411
	5	0,407	20,71728	428,8608
	6	0,612	31,45026	651,0405
3	0,75	0,127	6,057592	125,396
	1	0,158	7,680628	158,9939
	1,5	0,211	10,4555	216,4355
	2	0,246	12,28796	254,3686
	2,5	0,301	15,16754	313,9777
	3	0,357	18,09948	374,6707
	4	0,411	20,9267	433,1961
	5	0,459	23,43979	485,2186
	6	0,625	32,13089	665,1299

Keterangan : Luas membran 3,14 cm^2

4. Hasil Uji Pelepasan Patch Propranolol Formula ab

Replikasi	t(jam)	Abs	Cn'(ppm)	Qt ($\mu g/cm^2$)
1	1,5	0,163	7,942408	164,4129
	2	0,224	11,13613	230,5249
	2,5	0,318	16,05759	332,4024
	3	0,354	17,94241	371,4193
	4	0,402	20,4555	423,4418
	5	0,448	22,86387	473,2968
	6	0,52	26,63351	551,3306
2	1,5	0,152	7,366492	152,4911
	2	0,237	11,81675	244,6143
	2,5	0,321	16,21466	335,6538
	3	0,363	18,41361	381,1735
	4	0,417	21,24084	439,6989
	5	0,453	23,12565	478,7158
	6	0,551	28,25654	584,9285
3	1,5	0,132	6,319372	130,815
	2	0,225	11,18848	231,6087
	2,5	0,299	15,06283	311,8101
	3	0,337	17,05236	352,9946
	4	0,391	19,87958	411,52
	5	0,461	23,5445	487,3862
	6	0,517	26,47644	548,0792

Keterangan : Luas membran 3,14 cm^2

LAMPIRAN I

1. Hasil Uji Penetrasi Patch Propranolol Formula -1

Replikasi	t(jam)	Abs	C n'(ppm)	Qt (µg/cm^2)
1	1,5	0,153	7,41884	153,5749
	2	0,156	7,57591	156,8263
	2,5	0,16	7,78534	161,1615
	3	0,168	8,20418	169,8319
	4	0,169	8,25654	170,9157
	5	0,171	8,36125	173,0833
	6	0,246	12,2879	254,3686
2	1,5	0,133	6,3717	131,8988
	2	0,146	7,0522	145,9883
	2,5	0,152	7,3665	152,4911
	3	0,168	8,2041	169,8319
	4	0,185	9,0942	188,2566
	5	0,211	10,4555	216,2566
	6	0,254	12,7068	263,039
3	1,5	0,121	5,7434	118,8932
	2	0,135	6,4764	134,0664
	2,5	0,136	6,5287	135,1502
	3	0,155	7,5235	155,7425
	4	0,163	7,9424	164,4129
	5	0,213	10,5602	218,6031
	6	0,224	11,1361	230,5249

Keterangan : Luas membran 3,14 cm^2

2. Hasil Uji Penetrasi Patch Propranolol Formula a

Replikasi	t(jam)	Abs	C n'(ppm)	Qt (µg/cm^2)
1	1,5	0,14	6,73822	139,4854
	2	0,165	8,04712	166,5805
	2,5	0,166	8,099476	167,6643
	3	0,168	8,204188	169,8319
	4	0,181	8,884817	183,9214
	5	0,202	9,984293	206,6812
	6	0,218	10,82199	224,0221
2	1,5	0,136	6,528796	135,1502
	2	0,155	7,52356	155,7425
	2,5	0,164	7,994764	165,4967
	3	0,176	8,623037	178,5024
	4	0,197	9,722513	201,2622
	5	0,208	10,29843	213,184
	6	0,235	11,71204	242,4467
3	1,5	0,167	8,151832	168,7481
	2	0,166	8,099476	167,6643
	2,5	0,171	8,361257	173,0833
	3	0,174	8,518325	176,3347
	4	0,223	11,08377	229,4411
	5	0,226	11,24084	232,6925
	6	0,247	12,34031	255,4524

Keterangan : Luas membran 3,14 cm^2

3. Hasil Uji Penetrasi Patch Propranolol Formula b

Replikasi	T (jam)	Abs	C n' (ppm)	Qt (µg/cm^2)
	1,5	0,097	4,486911	92,88192
	2	0,102	4,748691	98,30093
	2,5	0,156	7,575916	156,8263
1	3	0,173	8,465969	175,2509
	4	0,177	8,675393	179,5862
	5	0,194	9,565445	198,0108
	6	0,246	12,28796	254,3686
	1,5	0,092	4,225131	87,4629
	2	0,115	5,429319	112,3904
	2,5	0,124	5,900524	122,1446
2	3	0,185	9,094241	188,2566
	4	0,197	9,722513	201,2622
	5	0,225	11,18848	231,6087
	6	0,239	11,92147	246,7819
	1,5	0,079	3,544503	73,37346
	2	0,122	5,795812	119,977
	2,5	0,13	6,21466	128,6474
3	3	0,137	6,581152	136,234
	4	0,205	10,14136	209,9326
	5	0,246	12,28796	254,3686
	6	0,268	13,43979	278,2122

Keterangan : Luas membran 3,14 cm^2

4. Hasil Uji Penetrasi Patch Propranolol Formula ab

Replikasi	t (jam)	Abs	C n' (ppm)	Qt (µg/cm^2)
1	2,5	0,116	5,481675	113,4742
	3	0,127	6,057592	125,396
	4	0,133	6,371728	131,8988
	5	0,146	7,052356	145,9883
	6	0,185	9,094241	188,2566
2	2,5	0,175	8,570681	177,4185
	3	0,182	8,937173	185,0052
	4	0,185	9,094241	188,2566
	5	0,191	9,408377	194,7594
	6	0,215	10,66492	220,7707
3	2,5	0,135	6,47644	134,0664
	3	0,139	6,685864	138,4016
	4	0,144	6,947644	143,8207
	5	0,151	7,314136	151,4073
	6	0,197	9,722513	201,2622

Keterangan : Luas membran 3,14 cm^2

LAMPIRAN J
DATA PENETRASI BLANKO PROPRANOLOL HCL

Replikasi	t (jam)	Abs	C n'(ppm)	Qt (µg/cm^2)
1	2	0	0	0
	2,5	0	0	0
	3	0,01	-0,0681	-1,4089
	4	0,013	0,0890	1,8424
	5	0,025	0,7173	14,8481
	6	0,040	1,5026	31,1052
2	2	0	0	0
	2,5	0	0	0
	3	0,012	0,0366	0,7587
	4	0,017	0,2984	6,1777
	5	0,021	0,5079	10,5129
	6	0,32	1,0838	22,4347
3	2	0,015	0,1937	4,0100
	2,5	0,031	1,0314	21,3509
	3	0,037	1,3456	27,8537
	4	0,040	1,5026	31,1052
	5	0,042	1,6073	33,2728
	6	0,055	2,2880	47,3622

Keterangan : Luas membran 3,14 cm^2

LAMPIRAN K

HASIL UJI ANOVA PELEPASAN PROPRANOLOL HCL DENGAN DESAIN FAKTORIAL

Response1 Pelepasan

ANOVA for selected factorial model

Analysis of variance table [Partial sum of squares - Type III]

	Sum of	**Sum of**	**Df**	**Mean Square**	**F Value**	**p-value Prob > F**	
Model		56854.34	3	18951.45	105.9	< 0.0001	significant
A-CMC Na	B-Tween 60	*5071.74*	1	*5071.74*	5	0.0007	
		47575.09	1	*47575.09*	*28.36*	< 0.0001	
AB		*4207*	1	*4207.51*	*265.9*	< 0.0013	
Pure Error		1430.92	8	178.86	*8*		
Cor Total		58285.26	11		*23.52*		

The Model F-value of 105.95 implies the model is significant. There is only a 0.01% chance that a "Model F-Value" this large could occur due to noise.

Values of "Prob > F" less than 0.0500 indicate model terms are significant.

In this case A, B, AB are significant model terms.

Values greater than 0.1000 indicate the model terms are not significant.

If there are many insignificant model terms (not counting those required to support hierarchy),

model reduction may improve your model.

Std. Dev.	13.37	R-Squared	0.9754
Mean	148.35	Adj R-Squared	0.9662
C.V. %	9.02	Pred R-Squared	0.9448
PRESS	3219.57	Adeq Precision	21.634

The "Pred R-Squared" of 0.9448 is in reasonable agreement with the "Adj R-Squared" of 0.9662.

"Adeq Precision" measures the signal to noise ratio. A ratio greater than 4 is desirable. You ratio of 21.634 indicates an adequate signal. This model can be used to navigate the design space.

Factor	Coefficient Estimate	df	Standard Error	95% CI Low	95% CI High	VIF
Intercept	148.35	1	3.86	139.45	157.25	
A-CMC Na	-20.56	1	3.86	-29.46	-11.66	1.00
B-Tween 60	-62.97	1	3.86	-71.87	-54.06	1.00
AB	18.73	1	3.86	9.82	27.63	1.00

Final Equation in Terms of Coded Factors:

Pelepasan =
+148.35
-20.56 * A
-62.97 * B
+18.73 * A * B

Final Equation in Terms of Actual Factors:

Pelepasan =
+148.35167
-20.55833 * CMC Na
-62.96500 * Tween 60
+18.72500 * CMC Na * Tween 60

The Diagnostics Case Statistics Report has been moved to the Diagnostics Node.

In the Diagnostics Node, Select Case Statistics from the View Menu.

Proceed to Diagnostic Plots (the next icon in progression). Be sure to look at the:

1) Normal probability plot of the studentized residuals to check for normality of residuals.

2) Studentized residuals versus predicted values to check for constant error.

3) Externally Studentized Residuals to look for outliers, i.e., influential values.

4) Box-Cox plot for power transformations.

If all the model statistics and diagnostic plots are OK, finish up with the Model Graphs icon.

LAMPIRAN L

Sum of	Sum of Squares	Df	Mean Square	F Value	p-value Prob > F	
Model						
A-CMC Na	776.20	3	258.73	3.81	0.0578	Not significant
B-Tween 60	*137.77*	*1*	*137.77*	*2.03*	*0.1922*	
AB	*178.6445*	*1*	*178.64*	*2.63*	*0.1435*	
Pure Error	*9.79*	*1*	*459.79*	*0.0031*	*0.0315*	
Cor Total	543.24	8	67.91	*6.77*		
	1319.45	1 1				

The Model F-value of 3.81 implies there is a 5.78% chance that a "Model F-Value"
this large could occur due to noise.
Values of "Prob > F" less than 0.0500 indicate model terms are significant.
In this case AB are significant model terms.
Values greater than 0.1000 indicate the model terms are not significant.
If there are many insignificant model terms (not counting those required to support hierarchy),
model reduction may improve your model.

Std. Dev.	8.24
Mean	21.26
C.V. %	38.75
PRESS 1222.29	Adeq Precision 4.224

The "Pred R-Squared" of 0.0736 is not as close to the "Adj R-Squared" of 0.4339 as one might
normally expect. This may indicate a large block effect or a possible problem with your model
and/or data. Things to consider are model reduction, response transformation, outliers, etc.

"Adeq Precision" measures the signal to noise ratio. A ratio greater than 4 is desirable. Your
ratio of 4.224 indicates an adequate signal. This model can be used to navigate the design space.

Factor	Coefficient Estimate	df	Standard Error	95% CI Low	95% CI High	VIF
Intercept	21.26	1	2.38	15.78	26.75	
A-CMC Na	-3.39	1	2.38	-8.87	2.10	1.00
B-Tween 60	3.86	1	2.38	-1.63	9.34	1.00
AB	-6.19	1	2.38	-11.68	-0.70	1.00

Final Equation in Terms of Coded Factors:

Penetrasi =
+21.26
-3.39 * A
+3.86 * B
-6.19 * A * B

Final Equation in Terms of Actual Factors:

Penetrasi =
+21.26333
-3.38833 * CMC Na
+3.85833 * Tween 60
-6.19000 * CMC Na * Tween 60

The Diagnostics Case Statistics Report has been moved to the Diagnostics Node.

In the Diagnostics Node, Select Case Statistics from the View Menu.

Proceed to Diagnostic Plots (the next icon in progression). Be sure to look at the:

1) Normal probability plot of the studentized residuals to check for normality of residuals.

2) Studentized residuals versus predicted values to check for constant error.

3) Externally Studentized Residuals to look for outliers, i.e., influential values.

4) Box-Cox plot for power transformations.

If all the model statistics and diagnostic plots are OK, finish up with the Model Graphs icon.

LAMPIRAN M

POINT PREDICTION DENGAN DESAIN FAKTORIAL

Factor	Name	Level	Low Level	Hight Level	Std. Dev	Coding
A	CMC Na	0.00	-1.00	1.00	0.000	Actual
B	Tween 60	0.00	-1.00	1.00	0.000	Actual

Response	Prediction	Std Dev	SE Mean	95% CI Low	95% CI High	SE Prediction	95% PI Low	95% PI High	99% of Population 95% TI Low	95% TI High
Pelepasan	89.957	13.374	5.3437	77.6344	102.28	14.4021	56.7458	123.168	21.0077	158.83
Penetrasi	26.2451	8.24046	3.2925	18.6525	33.8377	8.8739	5.78184	46.7083	-16.1956	68.686

LAMPIRAN N

PERHITUNGAN BATAS FLUKS PELEPASAN DAN PENETRASI PADA *PATCH* DENGAN LUAS 100 cm^2

- Pelepasan :

  Bawah = (80µg/ml x 462 ml/jam)/100 cm^2 = 369,6 µg/cm^2/jam

  Atas = (100µg/ml x 462 ml/jam)/100 cm^2 = 462 µg/cm^2/jam

- Penetrasi :

  Bawah = (9µg/ml x 462 ml/jam)/100 cm^2 = 41,54 µg/cm^2/jam

  Atas = (44µg/ml x 462 ml/jam)/100 cm^2 = 203,28 µg/cm^2/jam

LAMPIRAN O

HASIL PEMERIKSAAN BAHAN BAKU

kimia farma

Plant Jakarta
Jl. Rawagelam V No.1 Kawasan Industri Pulogadung
Telp. +62 21 4609354, 4603144 Fax. + 62 21 4603143
e.mail : dpj@cbn.net.id
Jakarta Timur 13930

No.Pemeriksaan : 80977/BB/08/02
Tgl.Permohonan : 14 Mei 2010
Tgl.Pemeriksaan : 03 Juni 2010
C.A : Ada

07 JUN 2010

Periksa laporan HPL No : 00977/BB/08 - 01

HASIL PEMERIKSAAN BAHAN BAKU

NAMA BAHAN BAKU : **PROPRANOLOL HCL (1000302)**
PROPRANOLOL HCL
MEREK/PRODUSEN : Societa Italiana Medicine Scandicci Italy
JUMLAH KEMASAN : 7 drum @ 25 kg = 175 kg
JUMLAH CONTOH : 4 x 10 g (1 - 4)

TGL.PEMBUATAN : Mei 2008
DALUARSA : Mei 2013
PEMASOK : PT.Menjangan Sakti
No.BATCH : 28.051

Pemeriksaan	Hasil	Syarat	Metode
Pemerian	1 - 4 = Serbuk kristal halus berwarna putih	Serbuk berwarna putih atau hampir putih	BP. 2003
Identifikasi	1 - 4 = Benar	-	BP. 2003
Kejernihan dan warna larutan(2 gram dalam 20 ml Methanol)	Memenuhi Pengujian	-	MPK0007
Susut pengeringan (10[illegible] konstan)	0,01%	Max.0,5 %	BP. 2003
Kadar	99,74%	-	BP. 2003
Kadar terhadap zat kering	99,75%	99,0 % - 101,0 %	BP. 2003

Kesimpulan : DILULUSKAN/DITOLAK
Catatan : **Bagian Pergudangan**
Diperiksa ulang Tgl.

Putri

Jakarta,

Apoteker Penanggung Jawab PM
Dra. Tia Mutianingsih

Asman Pengawasan Mutu
Drs. Hadi Kardoko

LAMPIRAN P

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

TABEL 2

Tabel uji F

Baris pertama pada setiap pasangan baris adalah titik pada distribusi *F* untuk aras 0.05; baris kedua untuk aras 0.01.

Derajat kebebasan untuk rataan kuadrat yang lebih kecil	Derajat kebebasan untuk rataan kuadrat yang lebih besar																					
	1	2	3	4	5	6	7	8	9	10	11	12	14	16	20	24	30	40	50	75	100	200	500	∞
16	4.49	3.63	3.24	3.01	2.85	2.74	2.66	2.59	2.54	2.49	2.45	2.42	2.37	2.33	2.28	2.24	2.20	2.16	2.13	2.09	2.07	2.04	2.02	2.01
	8.53	6.23	5.29	4.77	4.44	4.20	4.03	3.89	3.78	3.69	3.61	3.55	3.45	3.37	3.25	3.18	3.10	3.01	2.96	2.89	2.86	2.80	2.77	2.75
17	4.45	3.59	3.20	2.96	2.81	2.70	2.62	2.55	2.50	2.45	2.41	2.38	2.33	2.29	2.23	2.19	2.15	2.11	2.08	2.04	2.02	1.99	1.97	1.96
	8.40	6.11	5.18	4.67	4.34	4.10	3.93	3.79	3.68	3.59	3.52	3.45	3.35	3.27	3.16	3.08	3.00	2.92	2.86	2.79	2.76	2.70	2.67	2.65
18	4.41	3.55	3.16	2.93	2.77	2.66	2.58	2.51	2.46	2.41	2.37	2.34	2.29	2.25	2.19	2.15	2.11	2.07	2.04	2.00	1.98	1.95	1.93	1.92
	8.28	6.01	5.09	4.58	4.25	4.01	3.85	3.71	3.60	3.51	3.44	3.37	3.27	3.19	3.07	3.00	2.91	2.83	2.78	2.71	2.68	2.62	2.59	2.57
19	4.38	3.52	3.13	2.90	2.74	2.63	2.55	2.48	2.43	2.38	2.34	2.31	2.26	2.21	2.15	2.11	2.07	2.02	2.00	1.96	1.94	1.91	1.90	1.88
	8.18	5.93	5.01	4.50	4.17	3.94	3.77	3.63	3.52	3.43	3.36	3.30	3.19	3.12	3.00	2.92	2.84	2.76	2.70	2.63	2.60	2.54	2.51	2.49
20	4.35	3.49	3.10	2.87	2.71	2.60	2.52	2.45	2.40	2.35	2.31	2.28	2.23	2.18	2.12	2.08	2.04	1.99	1.96	1.92	1.90	1.87	1.85	1.84
	8.10	5.85	4.94	4.43	4.10	3.87	3.71	3.56	3.45	3.37	3.30	3.23	3.13	3.05	2.94	2.86	2.77	2.69	2.63	2.56	2.53	2.47	2.44	2.42
21	4.32	3.47	3.07	2.84	2.68	2.57	2.49	2.42	2.37	2.32	2.28	2.25	2.20	2.15	2.09	2.05	2.00	1.96	1.93	1.80	1.87	1.84	1.82	1.81
	8.02	5.78	4.87	4.37	4.04	3.81	3.65	3.51	3.40	3.31	3.24	3.17	3.07	2.99	2.88	2.80	2.72	2.63	2.58	2.51	2.47	2.42	2.38	2.36
22	4.30	3.44	3.05	2.82	2.66	2.55	2.47	2.40	2.35	2.30	2.26	2.23	2.18	2.13	2.07	2.03	1.98	1.93	1.91	1.87	1.84	1.81	1.80	1.78
	7.94	5.72	4.82	4.31	3.99	3.76	3.59	3.45	3.35	3.26	3.18	3.12	3.02	2.94	2.83	2.75	2.67	2.58	2.53	2.46	2.42	2.37	2.33	2.31
23	4.28	3.42	3.03	2.80	2.64	2.53	2.45	2.38	2.32	2.28	2.24	2.20	2.14	2.10	2.04	2.00	1.96	1.91	1.88	1.84	1.82	1.79	1.77	1.76
	7.88	5.66	4.76	4.26	3.94	3.71	3.54	3.41	3.30	3.21	3.14	3.07	2.97	2.89	2.78	2.70	2.62	2.53	2.48	2.41	2.37	2.32	2.28	2.26
24	4.26	3.40	3.01	2.78	2.62	2.51	2.43	2.36	2.30	2.26	2.22	2.18	2.13	2.09	2.02	1.98	1.94	1.89	1.86	1.82	1.80	1.76	1.74	1.73
	7.82	5.61	4.72	4.22	3.90	3.67	3.50	3.36	3.25	3.17	3.09	3.03	2.93	2.85	2.74	2.66	2.58	2.49	2.44	2.36	2.33	2.27	2.23	2.21
25	4.24	3.38	2.99	2.76	2.60	2.49	2.41	2.34	2.28	2.24	2.20	2.16	2.11	2.06	2.00	1.96	1.92	1.87	1.84	1.80	1.77	1.74	1.72	1.71
	7.77	5.57	4.68	4.18	3.86	3.63	3.46	3.32	3.21	3.13	3.05	2.99	2.89	2.81	2.70	2.62	2.54	2.45	2.40	2.32	2.29	2.23	2.19	2.17
26	4.22	3.37	2.89	2.74	2.59	2.47	2.39	2.32	2.27	2.22	2.18	2.15	2.10	2.05	1.99	1.95	1.90	1.85	1.82	1.78	1.76	1.72	1.70	1.69
	7.72	5.53	4.64	4.14	3.82	3.59	3.42	3.29	3.17	3.09	3.02	2.96	2.86	2.77	2.66	2.58	2.50	2.41	2.36	2.28	2.25	2.19	2.15	2.13
27	4.21	3.35	2.96	2.73	2.57	2.46	2.37	2.30	2.25	2.20	2.16	2.13	2.08	2.03	1.97	1.93	1.88	1.84	1.80	1.76	1.74	1.71	1.68	1.67
	7.68	5.49	4.60	4.11	3.79	3.56	3.39	3.26	3.14	3.06	2.98	2.93	2.83	2.74	2.63	2.55	2.47	2.38	2.33	2.25	2.21	2.16	2.12	2.10
28	4.20	3.34	2.95	2.71	2.56	2.44	2.36	2.29	2.24	2.19	2.15	2.12	2.06	2.02	1.96	1.91	1.87	1.81	1.78	1.75	1.72	1.69	1.67	1.65
	7.64	5.45	4.57	4.07	3.76	3.53	3.36	3.23	3.11	3.03	2.95	2.90	2.80	2.71	2.60	2.52	2.44	2.35	2.30	2.22	2.18	2.13	2.09	2.06
29	4.18	3.33	2.93	2.70	2.54	2.43	2.35	2.28	2.22	2.18	2.14	2.10	2.05	2.00	1.94	1.90	1.85	1.80	1.77	1.73	1.71	1.68	1.65	1.64
	7.60	5.52	4.54	4.04	3.73	3.50	3.32	3.20	3.08	3.00	2.92	2.87	2.77	2.68	2.57	2.49	2.41	2.32	2.27	2.19	2.15	2.10	2.06	2.03
30	4.17	3.32	2.92	2.69	2.53	2.42	2.34	2.27	2.21	2.16	2.12	2.09	2.04	1.99	1.93	1.89	1.84	1.79	1.76	1.72	1.69	1.66	1.64	1.62
	7.56	5.39	4.51	4.02	3.70	3.47	3.30	3.17	3.06	2.98	2.90	2.84	2.74	2.66	2.55	2.47	2.38	2.29	2.24	2.16	2.13	2.07	2.03	2.01

(*bersambung*)

Tabel uji F (lanjutan)

Baris pertama pada setiap pasangan baris adalah titik pada distribusi *F* untuk aras 0.05; baris kedua untuk aras 0.01.

Derajat kebebasan untuk rataan kuadrat yang lebih kecil.	Derajat kebebasan untuk rataan kuadrat yang lebih besar.																					
	1	2	3	4	5	6	7	8	9	10	11	12	14	16	20	24	30	40	50	75	100	200	500	∞
32	4.15	3.30	2.90	2.67	2.51	2.40	2.32	2.25	2.19	2.14	2.10	2.07	2.02	1.97	1.91	1.86	1.82	1.76	1.74	1.69	1.67	1.64	1.61	1.59
	7.50	5.34	4.46	3.97	3.66	3.42	3.25	3.12	3.01	2.94	2.86	2.80	2.70	2.62	2.51	2.42	2.34	2.25	2.20	2.12	2.08	2.02	1.98	1.96
34	4.13	3.28	2.88	2.65	2.49	2.38	2.30	2.23	2.17	2.12	2.08	2.05	2.00	1.95	1.89	1.84	1.80	1.74	1.71	1.67	1.64	1.61	1.59	1.57
	7.44	5.29	4.42	3.93	3.61	3.38	3.21	3.08	2.97	2.89	2.82	2.76	2.66	2.58	2.47	2.38	2.30	2.21	2.15	2.08	2.04	1.98	1.94	1.91
36	4.11	3.26	2.86	2.63	2.48	2.36	2.28	2.21	2.15	2.10	2.06	2.03	1.89	1.93	1.87	1.82	1.78	1.72	1.69	1.65	1.62	1.59	1.56	1.55
	7.39	5.25	4.38	3.89	3.58	3.35	3.18	3.04	2.94	2.86	2.78	2.72	2.62	2.54	2.43	2.35	2.26	2.17	2.12	2.04	2.00	1.94	1.90	1.87
38	4.10	3.25	2.85	2.62	2.46	2.35	2.26	2.19	2.14	2.09	2.05	2.02	1.96	1.92	1.85	1.80	1.76	1.71	1.67	1.63	1.60	1.57	1.54	1.53
	7.35	5.21	4.34	3.86	3.54	3.32	3.15	3.02	2.91	2.82	2.75	2.69	2.59	2.51	2.40	2.32	2.22	2.14	2.08	2.00	1.97	1.90	1.86	1.84
40	4.08	3.23	2.84	2.61	2.45	2.34	2.25	2.18	2.12	2.07	2.04	2.00	1.95	1.90	1.84	1.79	1.74	1.69	1.66	1.61	1.59	1.55	1.53	1.51
	7.31	5.18	4.31	3.83	3.51	3.29	3.12	2.99	2.88	2.80	2.73	2.66	2.56	2.49	2.37	2.29	2.20	2.11	2.05	1.97	1.94	1.88	1.84	1.81
42	4.07	3.22	2.83	2.59	2.44	2.32	2.24	2.17	2.11	2.06	2.02	1.90	1.94	1.89	1.82	1.78	1.73	1.68	1.64	1.60	1.57	1.54	1.51	1.49
	7.27	5.15	4.29	3.80	3.49	3.26	3.10	2.96	2.86	2.77	2.70	2.64	2.54	2.46	2.35	2.26	2.17	2.08	2.02	1.94	1.91	1.85	1.80	1.78
44	4.06	3.21	2.82	2.58	2.43	2.31	2.23	2.16	2.10	2.05	2.01	1.98	1.92	1.88	1.81	1.76	1.72	1.66	1.63	1.58	1.56	1.52	1.50	1.48
	7.24	5.12	4.26	3.78	3.46	3.24	3.07	2.94	2.84	2.75	2.68	2.62	2.52	2.44	2.32	2.24	2.15	2.06	2.09	1.92	1.88	1.82	1.78	1.75
46	4.05	3.20	2.81	2.57	2.42	2.30	2.22	2.14	2.09	2.04	2.00	1.97	1.91	1.87	1.80	1.75	1.71	1.65	1.62	1.57	1.54	1.51	1.48	1.46
	7.21	5.10	4.24	3.76	3.44	3.22	3.05	2.92	2.82	2.73	2.66	2.60	2.50	2.42	2.30	2.22	2.13	2.04	1.98	1.90	1.86	1.80	1.76	1.72
48	4.04	3.19	2.80	2.56	2.41	2.30	2.21	2.14	2.08	2.03	1.99	1.96	1.90	1.86	1.79	1.74	1.70	1.64	1.61	1.56	1.53	1.50	1.47	1.45
	7.19	5.08	4.22	3.74	3.42	3.20	3.04	2.90	2.80	2.71	2.64	2.58	2.48	2.40	2.28	2.20	2.11	2.02	1.96	1.88	1.84	1.78	1.73	1.70
50	4.03	3.18	2.79	2.56	2.40	2.29	2.20	2.13	2.07	2.02	1.98	1.95	1.90	1.85	1.78	1.74	1.69	1.63	1.60	1.55	1.52	1.48	1.46	1.44
	7.17	5.06	4.20	3.72	3.41	3.18	3.02	2.88	2.78	2.70	2.62	2.56	2.46	2.39	2.26	2.18	2.10	2.00	1.94	1.86	1.82	1.76	1.71	1.68
55	4.02	3.17	2.78	2.54	2.38	2.27	2.18	2.11	2.05	2.00	1.97	1.93	1.88	1.83	1.76	1.72	1.67	1.61	1.58	1.52	1.50	1.46	1.43	1.41
	7.12	5.01	4.16	3.68	3.37	3.15	2.98	2.85	2.75	2.66	2.59	2.53	2.43	2.35	2.23	2.15	2.06	1.96	1.90	1.82	1.78	1.71	1.66	1.64
60	4.00	3.15	2.76	2.52	2.37	2.25	2.17	2.10	2.04	1.99	1.95	1.92	1.86	1.81	1.75	1.70	1.65	1.59	1.56	1.50	1.48	1.44	1.41	1.39
	7.08	4.98	4.13	3.65	3.34	3.12	2.95	2.82	2.72	2.63	2.56	2.50	2.40	2.32	2.20	2.12	2.03	1.92	1.87	1.79	1.74	1.68	1.63	1.60
65	3.99	3.14	2.75	2.51	2.36	2.24	2.15	2.08	2.02	1.98	1.94	1.90	1.85	1.80	1.73	1.68	1.63	1.57	1.54	1.49	1.46	1.42	1.39	1.37
	7.04	4.95	4.10	3.62	3.31	3.09	2.93	2.79	2.70	2.61	2.54	2.47	2.37	2.30	2.18	2.09	2.00	1.90	1.84	1.76	1.71	1.64	1.60	1.56
70	3.98	3.13	2.74	2.50	2.35	2.32	2.14	2.07	2.01	1.97	1.93	1.89	1.84	1.79	1.72	1.67	1.62	1.56	1.53	1.47	1.45	1.40	1.37	1.35
	7.01	4.92	4.08	3.60	3.29	3.07	2.91	2.77	2.67	2.59	2.51	2.45	2.35	2.28	2.15	2.07	1.98	1.88	1.82	1.74	1.69	1.62	1.56	1.53
80	3.96	3.11	2.72	2.48	2.33	2.21	2.12	2.05	1.99	1.95	1.91	1.88	1.82	1.77	1.70	1.65	1.60	1.54	1.51	1.45	1.42	1.38	1.35	1.32
	6.96	4.88	4.04	3.56	3.25	3.04	2.87	2.74	2.64	2.55	2.48	2.41	2.32	2.24	2.11	2.03	1.94	1.84	1.78	1.70	1.65	1.57	1.52	1.49

Sumber: Schefler (1987).