

## **BAB V**

### **KESIMPULAN DAN SARAN**

#### **A. Kesimpulan**

Kesimpulan yang didapat berdasarkan hasil penelitian dan data statistik terhadap uji mutu fisik kapsul adalah:

1. Formulasi sediaan tablet salbutamol dengan variasi konsentrasi Na-CMC dan Explotab® dapat menghasilkan sediaan tablet yang memenuhi syarat uji mutu fisik tablet.
2. Formula I dengan variasi konsentrasi Na-CMC 3% dan Explotab® 5% merupakan formula yang paling baik dibandingkan formula II dan formula III.

#### **B. Saran**

Saran dari penulis untuk penelitian pembuatan sediaan tablet salbutamol dengan perbandingan konsentrasi Na-CMC dan Explotab® adalah:

1. Perlu dilakukan penelitian lebih lanjut dengan menggunakan bahan pengikat dan bahan penghancur lain serta dengan metode yang berbeda.
2. Perlu dilakukan pengembangan formula sehingga penelitian ini dapat lebih baik lagi dan dapat dilakukan dalam skala besar atau digunakan dalam skala industri.

## DAFTAR PUSTAKA

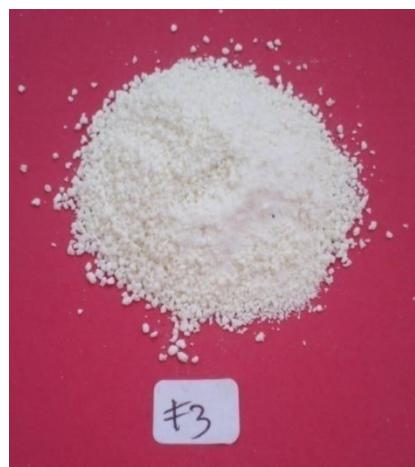
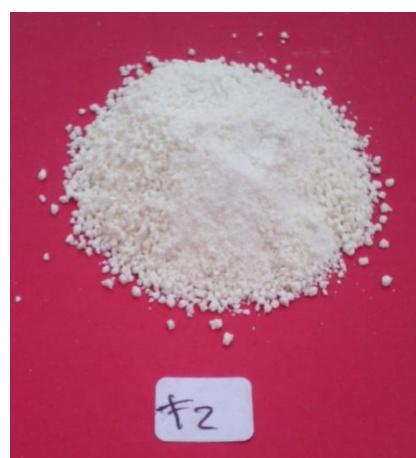
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## Lampiran 1. Sertifikat analisis

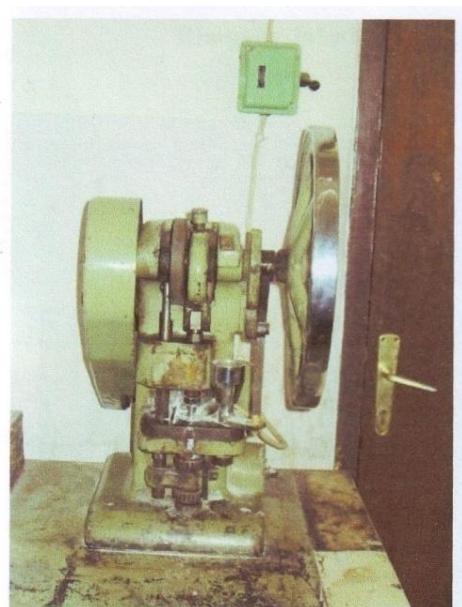
	<b>JAYCO CHEMICAL INDUSTRIES</b> <small>ISO 9001 : 2008, ISO 14001:2004 &amp; OHSAS 18001:2007 CERTIFIED COMPANY          MANUFACTURERS OF API's and Intermediates          W.E. HIGHWAY, NEXT TO DODHIA PETROL PUMP, KASHI MIRA, POST MIRA, DIST. THANE-401 104. MAHARASHTRA, INDIA          TEL.: 0091-22-6452 6498 / 6452 6508 / 6595 9749 • FAX: 0091-22-2845 4748 / 2845 8742          E-mail: Info@jaycochemicals.com • Web: www.jaycochemicals.com</small>		
<b>CERTIFICATE OF ANALYSIS</b>			
Name : Salbutamol Batch No. : SS/105/13-14 Mfg. Date. : May - 2013 Exp. Date. : April - 2018 Batch size : 150.00 kg		Date of Testing : 17/05/2013 Test As Per : BP A.R. No. : SS/105/2013	
Sr. No	TEST	RESULT	LIMIT
1	Description	White crystalline powder.	White or almost white crystalline powder.
2	Solubility	Freely soluble in water, Practically insoluble or very slightly soluble in alcohol & in methylene chloride.	Freely soluble in water, Practically insoluble or very slightly soluble in alcohol & in methylene chloride.
3	Identification		
	A) UV absorption	$A(1\%, 1\text{cm})$ at 276 nm 58.00	$A(1\%, 1\text{cm})$ at 276 nm is between 55 – 64.
	B) IR spectrum	Concordant with RS Spectrum of salbutamol Sulphate	Concordant with RS Spectrum of salbutamol sulphate
	C) TLC	Complies	As per BP.
	D) Colour test	Orange to red colour in Methylene chloride layer	Orange to red colour in Methylene chloride layer
	E) Sulphate Test	Complies	As per BP.
4	Appearance of solution.	1.0 % solution is clear & not more intensely coloured than BY <sub>6</sub>	1.0% solution is clear & not more intensely coloured than BY <sub>6</sub>
5	Optical Rotation	0.0°	-0.10° to +0.10°
6	Acidity or Alkalinity	0.25 ml of 0.01M HCl is required.	NMT 0.40 ml of 0.01M HCl is required.
7	Related substance By HPLC	Impurities D, F : Complies Impurities C,N,O : Complies Unspecified Impurities : Complies Total Impurity: Complies	Impurities D,F : NMT 0.30 % Impurities C,N,O : NMT 0.20 % Unspecified Impurities : NMT 0.10 % Total Impurity: NMT 0.9 %
8	Boron	Complies	NMT 50 ppm
9	Residual Solvents	Methanol : Complies	Methanol: NMT 3000 ppm
10	Loss on drying	0.22 %w/w	NMT 0.50 % w/w
11	Sulphated ash	0.048 %w/w	NMT 0.10 % w/w
12	Assay (On Dry Basis)	99.60 % w/w	98.0 % - 101.0 % w/w
The above sample complies as per B.P. Specification.			
Tested By  Trupti Sawant	Checked by  Vijay Maurya	Q.S. MANAGER  Ravindra S. Sankhe	

**Lampiran 2.** Foto granul salbutamol



Lampiran 3. foto sediaan tablet salbutamol



**Lampiran 4.** Foto alat-alat pengujian sediaan tablet*Moisture Balance**Single punch*



*Hardness tester*



*Friability tester*

**Lampiran 5.** Data susut pengeringan

Berat (gram)	Na-CMC : Explotab		
	3% : 5%	4% : 4%	5% : 3%
Berat mula-mula	2,00	2,00	2,00
Berat konstan	1,92	1,91	1,92
LOD %	4,00%	4,50%	4,50%

Contoh perhitungan LOD

$$\begin{aligned}\% \text{ LOD} &= \frac{2,00 - 1,92}{2,00} \times 100 \% \\ &= 4,00 \% \end{aligned}$$

**Lampiran 6.** Rancangan formulasi tablet salbutamol

<b>Komposisi tiap tablet</b>	<b>Formula (mg)</b>		
	<b>F1 (3% : 5%)</b>	<b>F2 (4% : 4%)</b>	<b>F3 (5% : 3%)</b>
Salbutamol	4	4	4
Na-CMC	6	8	10
Explotab®	10	8	6
Mg stearat	2	2	2
Laktosa	178	178	178
Berat tablet	200	200	200

Keterangan: F1 : Na-CMC 3% dan Explotab® 5%, F2 : Na-CMC 4% dan Explotab® 4%, F3 : Na-CMC 5% dan Explotab® 3%

Perhitungan bahan pembuatan 100 tablet:

$$\text{Na-CMC 3\%} = \frac{3}{100} \times 200 = 6 \times 100 = 600 \text{ mg}$$

$$\text{Na-CMC 4\%} = \frac{4}{100} \times 200 = 8 \times 100 = 800 \text{ mg}$$

$$\text{Na-CMC 5\%} = \frac{5}{100} \times 200 = 10 \times 100 = 1000 \text{ mg}$$

$$\text{Explotab 3\%} = \frac{3}{100} \times 200 = 6 \times 100 = 600 \text{ mg}$$

$$\text{Explotab 4\%} = \frac{4}{100} \times 200 = 8 \times 100 = 800 \text{ mg}$$

$$\text{Explotab 5\%} = \frac{5}{100} \times 200 = 10 \times 100 = 1000$$

$$\text{Mg stearat} = 2 \times 100 = 200 \text{ mg}$$

$$\text{Laktosa} = 178 \times 100 = 17800 \text{ mg}$$

**Lampiran 7.** Data waktu alir granul

No.	Waktu Alir Granul (detik)		
	Na-CMC : Explotab		
	3% : 5%	4% : 4%	5% : 3%
1	5.57	6.42	5.35
2	6.42	5.48	5.43
3	5.36	5.52	6.12
4	7.27	7.56	5.23
5	7.54	6.38	7.33
6	6.42	7.28	6.41
7	5.48	5.31	5.18
8	6.31	5.46	6.21
9	6.21	6.45	6.51
10	7.58	5.25	5.26
$\bar{x}$	6,416	6,111	5,903
SD	0,8238	0,8366	0,7243

## NPar Tests

**Descriptive Statistics**

	N	Mean	Std. Deviation	Minimum	Maximum
WAKTU ALIR	30	6.1433	.79794	5.18	7.58

**One-Sample Kolmogorov-Smirnov Test**

		WAKTU ALIR
N		30
Normal Parameters <sup>a,b</sup>	Mean	6.1433
	Std. Deviation	.79794
Most Extreme Differences	Absolute	.197
	Positive	.197
	Negative	-.121
Kolmogorov-Smirnov Z		1.080
Asymp. Sig. (2-tailed)		.194

a. Test distribution is Normal.

b. Calculated from data.

## Oneway

**Test of Homogeneity of Variances**

WAKTU ALIR

Levene Statistic	df1	df2	Sig.
.154	2	27	.858

**ANOVA**

WAKTU ALIR

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1.332	2	.666	1.049	.364
Within Groups	17.133	27	.635		
Total	18.465	29			

**Lampiran 8.** Data keseragaman bobot tablet salbutamol

N0	keseragaman bobot		
	F1	F2	F3
1	200	200	199
2	202	199	200
3	197	204	202
4	200	202	200
5	201	203	202
6	199	202	203
7	203	199	199
8	198	201	200
9	199	198	201
10	200	205	199
11	199	203	200
12	201	198	201
13	199	200	199
14	200	199	200
15	198	206	204
16	199	200	205
17	200	200	201
18	197	201	198
19	200	199	200
20	198	202	202
$\bar{x}$	3990	4021	4015
SD	3,2403	3,2529	3,2505
CV	1,62	1,61	1,61
Batas atas			
$\bar{x} + 7,5\%$	214.46	216.12	215.80
$\bar{x} - 15\%$	184.54	185.97	185.69
Batas bawah			
$\bar{x} + 7,5\%$	229.43	231.20	230.86
$\bar{x} - 15\%$	169.58	171.12	170.63

## NPar Tests

**Descriptive Statistics**

	N	Mean	Std. Deviation	Minimum	Maximum
KESERAGAMAN BOBOT	60	200.43	1.986	197	206

**One-Sample Kolmogorov-Smirnov Test**

		KESERAGAMAN BOBOT
N		60
Normal Parameters <sup>a,b</sup>	Mean	200.43
	Std. Deviation	1.986
Most Extreme Differences	Absolute	.203
	Positive	.203
	Negative	-.102
Kolmogorov-Smirnov Z		1.573
Asymp. Sig. (2-tailed)		.014

a. Test distribution is Normal.

b. Calculated from data.

## Oneway

**Test of Homogeneity of Variances**

KESERAGAMAN BOBOT

Levene Statistic	df1	df2	Sig.
1.913	2	57	.157

**ANOVA**

KESERAGAMAN BOBOT

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	27.033	2	13.517	3.746	.030
Within Groups	205.700	57	3.609		
Total	232.733	59			

## Post Hoc Tests

### Multiple Comparisons

KESERAGAMAN BOBOT

Scheffe

(I) FORMULA TABLET	(J) FORMULA TABLET	Mean Difference (I- J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
FORMULA 1	FORMULA 2	-1.550*	.601	.043	-3.06	-.04
	FORMULA 3	-1.250	.601	.124	-2.76	.26
FORMULA 2	FORMULA 1	1.550*	.601	.043	.04	3.06
	FORMULA 3	.300	.601	.883	-1.21	1.81
FORMULA 3	FORMULA 1	1.250	.601	.124	-.26	2.76
	FORMULA 2	-.300	.601	.883	-1.81	1.21

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

## Homogeneous Subsets

KESERAGAMAN BOBOT

Scheffe<sup>a</sup>

FORMULA TABLET	N	Subset for alpha = 0.05	
		1	2
FORMULA 1	20	199.50	
FORMULA 3	20	200.75	200.75
FORMULA 2	20		201.05
Sig.		.124	.883

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 20.000.

**Lampiran 9.** Data kekerasan tablet salbutamol

No.	Kekerasan tablet (mg) Na-CMC : Explotab		
	3% : 5%	4% : 4%	5% : 3%
1	8.6	10.4	11.5
2	9.6	9.5	11.5
3	9.5	10.5	10.5
4	9.5	9.6	11.7
5	9.7	10.5	11.3
6	9.8	10.3	11.2
7	8.8	9.5	10.4
8	9.8	10.2	11.1
9	9.7	10.2	11.2
10	9.6	10.6	10.5
$\bar{x}$	94.6	101.3	110.9
SD	0,4168	0,4321	0,465

## NPar Tests

**Descriptive Statistics**

	N	Mean	Std. Deviation	Minimum	Maximum
KEKERASAN	30	10.2267	.80126	8.60	11.70

**One-Sample Kolmogorov-Smirnov Test**

		KEKERASAN
N		30
Normal Parameters <sup>a,b</sup>	Mean	10.2267
	Std. Deviation	.80126
Most Extreme Differences	Absolute	.136
	Positive	.136
	Negative	-.116
Kolmogorov-Smirnov Z		.746
Asymp. Sig. (2-tailed)		.634

a. Test distribution is Normal.

b. Calculated from data.

## Oneway

**Test of Homogeneity of Variances**

KEKERASAN

Levene Statistic	df1	df2	Sig.
.229	2	27	.797

**ANOVA**

KEKERASAN

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	13.425	2	6.712	34.893	.000
Within Groups	5.194	27	.192		
Total	18.619	29			

## Post Hoc Tests

### Multiple Comparisons

KEKERASAN

Scheffe

(I) FORMULA TABLET	(J) FORMULA TABLET	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
FORMULA 1	FORMULA 2	-.67000*	.19615	.008	-1.1780	-.1620
	FORMULA 3	-1.63000*	.19615	.000	-2.1380	-1.1220
FORMULA 2	FORMULA 1	.67000*	.19615	.008	.1620	1.1780
	FORMULA 3	-.96000*	.19615	.000	-1.4680	-.4520
FORMULA 3	FORMULA 1	1.63000*	.19615	.000	1.1220	2.1380
	FORMULA 2	.96000*	.19615	.000	.4520	1.4680

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

## Homogeneous Subsets

KEKERASAN

Scheffe<sup>a</sup>

FORMULA TABLET	N	Subset for alpha = 0.05		
		1	2	3
FORMULA 1	10	9.4600		
FORMULA 2	10		10.1300	
FORMULA 3	10			11.0900
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 10.000.

**Lampiran 10.** Data kerapuhan tablet salbutamol

Berat tablet (g)	Konsentrasi 3% dan 5%			Konsentrasi 4% dan 4%			Konsentrasi 5% dan 3%		
	F1	F2	F3	F1	F2	F3	F1	F2	F3
Sebelum	3.8342	3.8502	3.9764	3.9753	3.9983	4.0862	4.0634	4.1173	4.0821
Sesudah	3.8122	3.8279	3.9539	3.9528	3.9758	4.0641	4.0425	4.0971	4.0625
Kerapuhan %	0,57	0,57	0,56	0,56	0,56	0,54	0,51	0,49	0,48
$\bar{x}$	$\bar{x} = 0,56$			$\bar{x} = 0,55$			$\bar{x} = 0,49$		
	$SD = 0,007$			$SD = 0,012$			$SD = 0,015$		

Contoh perhitungan % kerapuhan tablet = 0,57%

- Berat 20 tablet yang sudah dibebasdebuhan = 3,8342 gram
- Berat 20 tablet setelah perlakuan = 3,8122 gram
- % kerapuhan =  $\frac{\text{berat awal} - \text{berat setelah perlakuan}}{\text{berat awal}} \times 100\%$

$$= \frac{3,8342 - 3,8122}{3,8342} \times 100\% \\ = 0,57\%$$

## NPar Tests

### Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
KERAPUHAN	9	.5414	.03755	.48	.58

### One-Sample Kolmogorov-Smirnov Test

		KERAPUHAN
N		9
Normal Parameters <sup>a,b</sup>	Mean	.5414
	Std. Deviation	.03755
Most Extreme Differences	Absolute	.271
	Positive	.157
	Negative	-.271
Kolmogorov-Smirnov Z		.812
Asymp. Sig. (2-tailed)		.526

a. Test distribution is Normal.

b. Calculated from data.

## Oneway

### Test of Homogeneity of Variances

KERAPUHAN

Levene Statistic	df1	df2	Sig.
1.778	2	6	.248

### ANOVA

KERAPUHAN

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.010	2	.005	28.082	.001
Within Groups	.001	6	.000		
Total	.011	8			

## Post Hoc Tests

### Multiple Comparisons

KERAPUHAN

Scheffe

(I) FORMULA TABLET	(J) FORMULA TABLET	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
FORMULA 1	FORMULA 2	.01641	.01100	.388	-.0189	.0517
	FORMULA 3	.07815*	.01100	.001	.0429	.1134
FORMULA 2	FORMULA 1	-.01641	.01100	.388	-.0517	.0189
	FORMULA 3	.06174*	.01100	.004	.0265	.0970
FORMULA 3	FORMULA 1	-.07815*	.01100	.001	-.1134	-.0429
	FORMULA 2	-.06174*	.01100	.004	-.0970	-.0265

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

## Homogeneous Subsets

KERAPUHAN

Scheffe<sup>a</sup>

FORMULA TABLET	N	Subset for alpha = 0.05	
		1	2
FORMULA 3	3	.4948	
FORMULA 2	3		.5565
FORMULA 1	3		.5729
Sig.		1.000	.388

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

**Lampiran 11.** Data waktu hancur tablet salbutamol

No.	Waktu hancur (detik) Na-CMC : Explotab		
	F1 3% : 5%	F2 4% : 4%	F3 5% : 3%
1.	10,14	12,13	13,17
2.	10,18	12,12	13,12
3.	10,24	12,15	13,16
4.	10,17	12,23	13,22
5.	10,24	12,18	13,19
6.	10,21	12,2	13,24
SD	0,04	0,042	0,043

## NPar Tests

**Descriptive Statistics**

	N	Mean	Std. Deviation	Minimum	Maximum
Waktu hancur	18	11.8494	1.27654	10.14	13.24

**One-Sample Kolmogorov-Smirnov Test**

		Waktu hancur
N		18
Normal Parameters <sup>a,b</sup>	Mean	11.8494
	Std. Deviation	1.27654
Most Extreme Differences	Absolute	.251
	Positive	.230
	Negative	-.251
Kolmogorov-Smirnov Z		1.063
Asymp. Sig. (2-tailed)		.208

a. Test distribution is Normal.

b. Calculated from data.

## Oneway

**Test of Homogeneity of Variances**

Waktu hancur

Levene Statistic	df1	df2	Sig.
.014	2	15	.986

**ANOVA**

Waktu hancur

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	27.676	2	13.838	7818.007	.000
Within Groups	.027	15	.002		
Total	27.702	17			

## Post Hoc Tests

### Multiple Comparisons

Waktu hancur

Scheffe

(I) Formula tablet	(J) Formula tablet	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula 1	Formula 2	-1.97167*	.02429	.000	-2.0376	-1.9057
	— Formula 3	-2.98667*	.02429	.000	-3.0526	-2.9207
Formula 2	Formula 1	1.97167*	.02429	.000	1.9057	2.0376
—	— Formula 3	-1.01500*	.02429	.000	-1.0809	-.9491
Formula 3	Formula 1	2.98667*	.02429	.000	2.9207	3.0526
	— Formula 2	1.01500*	.02429	.000	.9491	1.0809

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

## Homogeneous Subsets

Waktu hancur

Scheffe<sup>a</sup>

Formula tablet	N	Subset for alpha = 0.05		
		1	2	3
Formula 1	6	10.1967		
Formula 2	6		12.1683	
— Formula 3	6			13.1833
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.