L A M P I R A N

Lampiran 1. Perhitungan Formula Tablet Kunyah Antasida

1. **Formula 1 Laktosa 25%**

   Laktosa Monohydrate $= \frac{150}{600}$ x 100mg = 25%

2. **Formula 2 Manitol 25%**

   Manitol $= \frac{150}{600}$ x 100mg = 25%

3. **Formula 3 Laktosa 12,5% : Manitol 12,5%**

   Laktosa $= \frac{75}{600}$

   Manitol $= \frac{75}{600}$ x 100mg

   = 12,5% x 100mg

   = 12,5%

Lampiran 2. Uji Identifikasi Bahan Aktif

Bahan Aktif	Hasil Uji	Kesimpulan
Aluminium hidroksida		Bahan aktif asli, terdapat endapan putih
Magnesium hidroksida	 	Bahan aktif asli, terdapat perubahan warna merah terang ke gelap setelah panaskan dengan bunsem selama 1jam

Lampiran 3. Uji Sifat Alir Granul

A. Tabel uji sifat alir granul

WAKTU ALIR GRANUL (s)			
REPLIKASI	**F.1**	**F.2**	**F.3**
	Waktu	**Waktu**	**Waktu**
1	03.40	04.50	03.91
2	03.23	04.66	04.47
3	03.30	04.26	04.07
MEAN	**3,31**	**4,47**	**4,15**
SD	**0,085**	**0,201**	**0,288**
SUDUT DIAM GRANUL (^{O})			
REPLIKASI	**F.1**	**F.2**	**F.3**
1	24,89	28.55	24.32
2	24,75	29.96	27.39
3	23,12	31.71	27.64
MEAN	**24,25**	**30.07**	**26.45**
SD	**0,984**	**1.583**	**1.849**
PENGETAPAN GRANUL (%)			
REPLIKASI	**F.1**	**F.2**	**F.3**
1	2	8	5
2	3	12	8
3	2	15	7
MEAN	**2,33**	**11.67**	**6,67**
SD	**0,577**	**3.512**	**1,528**
SUSUT PENGERINGAN GRANUL GRANUL (%)			
REPLIKASI	**F.1**	**F.2**	**F.3**
1	4,0	2,0	3,5
2	4,0	2,0	3,0
3	5,0	2,0	3,9
MEAN	**4,33**	**2,00**	**3,47**
SD	**0,577**	**0,000**	**0,451**

B. Perhitungan

- Sudut diam

  Diketahui :

  Tinggi kerucut granul (h) = 2,5cm

  Jari-jari permukaan kercucut = 5,39 cm

$$\mathbf{Tan^{-1}}\ \alpha = \frac{h}{r}$$

$$= \frac{2,5}{5,39}$$

$$= 0,464$$

$$\mathbf{Tan^{-1}} = 34,891^{o}$$

- Pengetapan
  Diketahui =
  Volume awal granul (V1) = 100 mL
  Volume akhir granul setelah pengetapan (V2) = 98 mL

  $T\% = \frac{V1-V2}{V1} \text{ X } 100\%$

  $= \frac{100-98}{100} \text{ X } 100\%$

  $= 2\ \%$

Lampiran 4. Tablet Kunyah Antasida

Formula I	Formula II	Formula III
		

Lampiran 5. Uji Keragaman Bobot

A. Tabel Replikasi F1-F.3

Keragaman Bobot (mg)									
Formula									
F.1				F.2			F.3		
Replikasi	R.1	R.2	R.3	R.1	R.2	R.3	R.1	R.2	R.3
1	605	600	602	595	597	603	601	597	602
2	600	605	601	599	598	600	601	606	600
3	604	601	607	600	602	601	596	604	597
4	604	604	601	598	600	602	597	601	596
5	607	606	600	600	598	597	606	600	605
6	605	604	600	602	604	599	602	600	603
7	606	605	601	603	600	600	601	601	598
8	607	602	604	598	597	600	602	596	600
9	606	603	600	597	600	599	603	600	604
10	602	601	601	601	603	597	600	602	601
11	601	604	600	597	600	604	602	600	600
12	600	600	603	603	597	601	603	597	602
13	605	602	606	602	598	599	604	603	605
14	607	604	602	601	603	604	602	600	600
15	605	601	600	598	601	604	603	601	602
16	606	603	605	597	599	601	602	604	601
17	604	603	601	599	600	600	600	600	602
18	601	605	603	604	598	600	598	601	600
19	606	604	602	600	599	601	601	603	600
20	603	607	604	601	600	598	603	600	602
Mean	**604**	**603**	**602**	**600**	**600**	**601**	**601**	**601**	**601**
SD	**2,31**	**1,96**	**2,11**	**2,40**	**1,99**	**2,12**	**2,35**	**2,46**	**2,36**
KESELURUHAN									
	F.1			**F.2**			**F.3**		
Mean	**603,18mg**			**600,02mg**			**601,05mg**		
SD	**0,173**			**0,212**			**0,063**		
%CV	**0,03**			**0,01**			**0,01**		

B. Batas penyimpangan bobot 5% dan 10%

PENYIMPANGAN BOBOT 5%				
FORMULA	**Bobot rata-rata**	**Batas Penyimpangan**	**Minimum**	**Maksimum**
1	**603,18**	**30,16**	**574,16**	**633,34**
2	**600,02**	**30,00**	**570,02**	**630,02**
3	**601,05**	**30,05**	**571,0**	**631,1**
PENYIMPANGAN BOBOT 10%				
FORMULA	**Bobot rata-rata**	**Batas Penyimpangan**	**Minimum**	**Maksimum**
1	**603,18**	**60,32**	**542,86**	**663,5**
2	**600,02**	**60,00**	**540,02**	**660,02**
3	**601,05**	**60,11**	**540,94**	**661,16**

C. Perhitungan

1. Penyimpangan bobot 5%

5% x 603,18 = 30,16 (Batas penyimpangan)

- **Batas minimum = 603,18 - 30,16**
  = 574,16 mg

- **Batas maksimum = 603,18 + 30,16**
  = 633,34 mg

2. Penyimpangan bobot 10%

10% x 603,18 = 60,32 (Penyimpangan)

- **Batas minimum = 603,18 - 60,32**
  = 542,86 mg
- **Batas maksimum = 603,18 + 60,32**
  = 663,5 mg

Lampiran 6. Uji Keseragaman Ukuran

a. Tabel Formula.1

KERAGAMAN UKURAN (cm)						
FORMULA.1						
NO.	R.1		R.2		R.3	
	Diameter	Tebal	Diameter	Tebal	Diameter	Tebal
1	1,32	0,35	1,32	0,34	1,32	0,34
2	1,32	0,34	1,32	0,34	1,32	0,34
3	1,32	0,34	1,32	0,34	1,32	0,34
4	1,32	0,34	1,32	0,34	1,32	0,34
5	1,32	0,34	1,32	0,34	1,32	0,34
6	1,32	0,34	1,32	0,34	1,32	0,34
7	1,32	0,34	1,32	0,34	1,32	0,34
8	1,32	0,34	1,32	0,34	1,32	0,34
9	1,32	0,34	1,32	0,34	1,32	0,35
10	1,32	0,34	1,32	0,34	1,32	0,34
11	1,32	0,34	1,32	0,34	1,32	0,34
12	1,32	0,34	1,32	0,34	1,32	0,34
13	1,32	0,34	1,32	0,34	1,32	0,34
14	1,32	0,34	1,32	0,34	1,32	0,34
15	1,32	0,34	1,32	0,34	1,32	0,34
16	1,32	0,34	1,32	0,34	1,32	0,34
17	1,32	0,34	1,32	0,34	1,32	0,34
18	1,32	0,34	1,32	0,34	1,32	0,34
19	1,32	0,34	1,32	0,34	1,32	0,34
20	1,32	0,34	1,32	0,34	1,32	0,34
MEAN	**1,32**	**0,341**	**1,32**	**0,340**	**1,32**	**0,341**
SD	**0,000**	**0,002**	**0,000**	**0,000**	**0,000**	**0,002**

b. Tabel Formula.2

KERAGAMAN UKURAN (cm)						
FORMULA.1						
NO.	R.1		R.2		R.3	
	Diameter	Tebal	Diameter	Tebal	Diameter	Tebal
1	1,32	0,32	1,32	0,32	1,32	0,32
2	1,32	0,32	1,32	0,32	1,32	0,32
3	1,32	0,32	1,32	0,32	1,32	0,32
4	1,32	0,32	1,32	0,32	1,32	0,32
5	1,32	0,32	1,32	0,32	1,32	0,32
6	1,32	0,32	1,32	0,32	1,32	0,32
7	1,32	0,32	1,32	0,32	1,32	0,32
8	1,32	0,32	1,32	0,32	1,32	0,32
9	1,32	0,32	1,32	0,32	1,32	0,32
10	1,32	0,32	1,32	0,32	1,32	0,32
11	1,32	0,32	1,32	0,32	1,32	0,32
12	1,32	0,32	1,32	0,32	1,32	0,32
13	1,32	0,32	1,32	0,32	1,32	0,32
14	1,32	0,32	1,32	0,32	1,32	0,32
15	1,32	0,32	1,32	0,32	1,32	0,32
16	1,32	0,32	1,32	0,32	1,32	0,32
17	1,32	0,32	1,32	0,32	1,32	0,32
18	1,32	0,32	1,32	0,32	1,32	0,32
19	1,32	0,32	1,32	0,32	1,32	0,32
20	1,32	0,32	1,32	0,32	1,32	0,32
MEAN	**1,32**	**0,32**	**1,32**	**0,32**	**1,32**	**0,32**
SD	**0,000**	**0,000**	**0,000**	**0,000**	**0,000**	**0,000**

c. Tabel Formula.3

KERAGAMAN UKURAN (cm)						
FORMULA.1						
NO.	R.1		R.2		R.3	
	Diameter	Tebal	Diameter	Tebal	Diameter	Tebal
1	1,32	0,34	1,32	0,34	1,32	0,34
2	1,32	0,34	1,32	0,34	1,32	0,34
3	1,32	0,34	1,32	0,34	1,32	0,34
4	1,32	0,34	1,32	0,34	1,32	0,34
5	1,32	0,34	1,32	0,34	1,32	0,34
6	1,32	0,34	1,32	0,34	1,32	0,34
7	1,32	0,34	1,32	0,34	1,32	0,34
8	1,32	0,34	1,32	0,34	1,32	0,34
9	1,32	0,34	1,32	0,34	1,32	0,34
10	1,32	0,34	1,32	0,34	1,32	0,34
11	1,32	0,34	1,32	0,34	1,32	0,34
12	1,32	0,34	1,32	0,34	1,32	0,34
13	1,32	0,34	1,32	0,34	1,32	0,34
14	1,32	0,34	1,32	0,34	1,32	0,34
15	1,32	0,34	1,32	0,34	1,32	0,34
16	1,32	0,34	1,32	0,34	1,32	0,34
17	1,32	0,34	1,32	0,34	1,32	0,34
18	1,32	0,34	1,32	0,34	1,32	0,34
19	1,32	0,34	1,32	0,34	1,32	0,34
20	1,32	0,34	1,32	0,34	1,32	0,34
MEAN	**1,32**	**0,34**	**1,32**	**0,34**	**1,32**	**0,34**
SD	**0,000**	**0,000**	**0,000**	**0,000**	**0,000**	**0,000**

d. Keseluruhan

KESERAGAMAN UKURAN (cm)						
REPLIKASI	FORMULA					
	F.1		F.2		F.3	
	Diameter	Tebal	Diameter	Tebal	Diameter	Tebal
1	1,32	0,341	1,32	0,340	1,32	0,341
2	1,32	0,320	1,32	0,320	1,32	0,320
3	1,32	0,340	1,32	0,340	1,32	0,340
MEAN	**1,32**	**0,334**	**1,32**	**0,333**	**1,32**	**0,334**
SD	**0,000**	**0,012**	**0,000**	**0,012**	**0,000**	**0,012**

e. Batas keseluruh tablet (d<3xUkuran tablet, tebal<$1_{1/3}$/Ukuran tablet)

TEBAL DAN DIAMETER TABLET (< 3x <d> $1_{1/3}$ Ukuran Tablet)			
REPLIKASI	F.1	F.2	F.3
	4/3t < d > 3t	4/3t < d > 3t	4/3t < d > 3t
1	3,96 < d > 0,455	3,96 <d>0,453	3,96 < d > 0,455
2	3,96 < d > 0,427	3,96 < d > 0,427	3,96 <d>0,427
3	3,96 < d > 0,453	3,96 < d > 0,453	3,96 <d>0,453

f. Perhitungan

Syarat = Tebal tablet tidak lebih dari 11/3 (4/3) ukuran tablet, diameter tidak boleh lebih dari 3x ukuran tablet.

4/3t < d > 3t = 3 x 1,32 < d > 4/3 x 0,341
= 3,96 < d > 0,455

Lampiran 7. Uji Kekerasan

REPLIKASI	UJI KEKERASAN (kg)		
	FORMULA		
	F.1	F.2	F.3
1.	6,1	4,2	6,0
2.	6,7	4,6	5,8
3.	6,5	4,4	5,2
4.	7,6	4	5,3
5.	6,3	4,2	5,5
6.	7,2	4,5	7,2
Mean	**6,73**	**4,32**	**5,83**
SD	**0,568**	**0,223**	**0,734**

Lampiran 8. Uji Kerapuhan

A. Tabel replikasi F.1 -F.3

REPLIKASI	UJI KERAPUHAN (%)		
	FORMULA		
	F.1	F.2	F.3
1.	0,498	0,927	0,69
2.	0,631	0,821	0,73
3.	0,516	0,836	0,56
Mean	**0,55**	**0,86**	**0,66**
SD	**0,072**	**0,057**	**0,089**

B. Perhitungan

W1 (Bobot sebelum diuji) = 6,021 mg

W2 (Bobot setelah diuji) = 5,991 mg

$$F = \frac{W1\ X\ W2}{W1} \text{ X } 100\%$$

$$= \frac{6{,}021-5{,}991}{6{,}021} \text{ X } 100\%$$

$$= 0{,}498\%$$

Lampiran 9. Uji Tanggapan Rasa

A. Tabel respons tanggap rasa F.1-F.3

NOTE :

Scale Range :

1 = Tidak Suka

2 = Suka

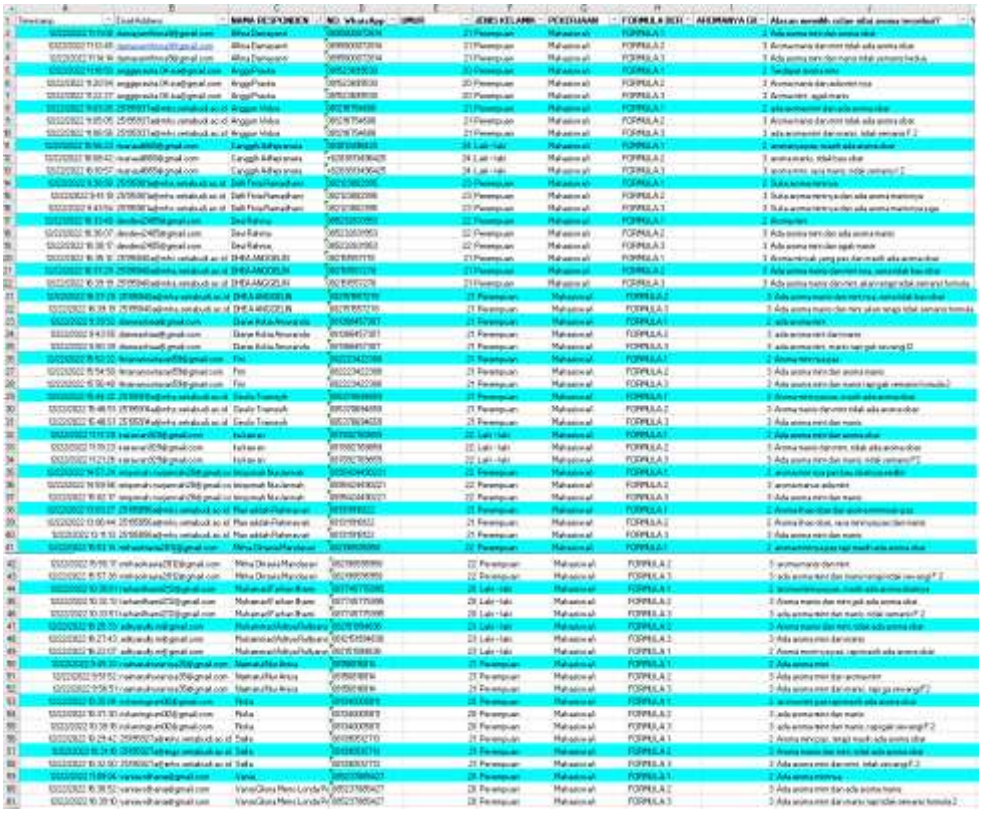
3 = Sangat Suka

UJI TANGGAPAN RASA					
Resp.	**FORMULA**	**PARAMETER**			
		AROMA	**WARNA**	**RASA**	**TEKSTUR**
1	**FORMULA.1**	2	3	1	1
2		2	3	1	1
3		2	3	1	2
4		2	3	1	1
5		2	3	1	1
6		2	3	2	3
7		2	3	1	1
8		3	3	1	1
9		2	2	1	2
10		2	3	1	1
11		2	3	1	1
12		2	3	2	1
13		2	3	1	1
14		2	1	1	1
15		2	3	1	1
16		2	3	1	1
17		2	3	1	1
18		2	3	1	1
19		2	3	1	1
20		2	3	1	1
JUMLAH		41	57	22	24
PRECENTAGE		68%	95%	37%	40%
MEAN		2,05	2,85	1,1	1,2
SD		0,224	0,489	0,308	0,523
Resp.	**FORMULA**	**PARAMETER**			
		AROMA	**WARNA**	**RASA**	**TEKSTUR**
1		3	2	2	2
2		3	2	3	3
3		3	2	3	3

4	**FORMULA.2**	3	2	3	3
5		3	2	3	3
6		3	2	3	3
7		3	2	3	3
8		3	2	3	3
9		3	2	3	3
10		3	2	3	3
11		3	2	3	3
12		3	2	3	3
13		2	3	3	3
14		3	2	3	3
15		3	2	3	3
16		3	2	2	1
17		3	2	3	3
18		3	2	3	3
19		3	2	3	3
20		3	2	3	3
JUMLAH		59	41	58	57
PRECENTAGE		98%	68%	97%	95%
MEAN		2,95	2,05	2,90	2,85
SD		0,224	0,224	0,308	0,489
Resp.	**FORMULA**	**PARAMETER**			
		AROMA	**WARNA**	**RASA**	**TEKSTUR**
1	**FORMULA.3**	3	2	2	2
2		3	2	2	2
3		3	2	2	3
4		3	2	2	3
5		3	2	2	2
6		3	2	2	2
7		3	2	2	2
8		3	2	2	2
9		3	2	2	2
10		1	2	2	2
11		3	2	2	3
12		3	2	2	2
13		3	2	2	2
14		3	2	2	2
15		3	2	2	2
16		3	2	2	2
17		3	2	2	2
18		3	2	2	2

19		3	2	2	2
20		2	2	2	2
JUMLAH		57	40	40	43
PRECENTAGE		95%	67%	67%	72%
MEAN		2,85	2,00	2,00	2,15
SD		0,489	0,000	0,000	0,366

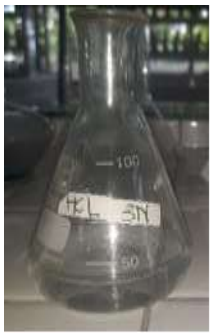
B. Spreadsheet Respondens



Lampiran 10. Alat dan Bahan

ALAT
           

BAHAN



Lampiran 11. Hasil Olah Data Statistik SPSS

A. SIFAT ALIR GRANUL

1. Waktu alir granul

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Formula	Statistic	df	Sig.	Statistic	df	Sig.
Waktu	F.1	.213	3	.	.990	3	.806
	F.2	.219	3	.	.987	3	.780
	F.3	.276	3	.	.942	3	.537

a. Lilliefors Significance Correction

Descriptives

Waktu

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
F.1	3	3.3100	.08544	.04933	3.0978	3.5222	3.23	3.40
F.2	3	4.4733	.20133	.11624	3.9732	4.9735	4.26	4.66
F.3	3	4.1500	.28844	.16653	3.4335	4.8665	3.91	4.47
Total	9	3.9778	.55063	.18354	3.5545	4.4010	3.23	4.66

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Waktu	Based on Mean	1.961	2	6	.221
	Based on Median	.662	2	6	.550
	Based on Median and with adjusted df	.662	2	3.605	.569
	Based on trimmed mean	1.845	2	6	.237

ANOVA

Waktu

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2.163	2	1.082	24.766	.001
Within Groups	.262	6	.044		
Total	2.426	8			

Waktu

Tukey B[a]

Formula	N	Subset for alpha = 0.05	
		1	2
F.1	3	3.3100	
F.3	3		4.1500
F.2	3		4.4733

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

SUDUT DIAM GRANUL

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	FORMULA	Statistic	df	Sig.	Statistic	df	Sig.
SUDUT DIAM	F.1	.360	3	.	.809	3	.136
	F.2	.195	3	.	.996	3	.882
	F.3	.361	3	.	.806	3	.129

a. Lilliefors Significance Correction

Descriptives

SUDUT DIAM

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
F.1	3	24.2533	.98399	.56811	21.8090	26.6977	23.12	24.89
F.2	3	30.0733	1.58305	.91397	26.1408	34.0058	28.55	31.71
F.3	3	26.4500	1.84886	1.06744	21.8572	31.0428	24.32	27.64
Total	9	26.9256	2.86381	.95460	24.7242	29.1269	23.12	31.71

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
SUDUT DIAM	Based on Mean	.810	2	6	.488
	Based on Median	.159	2	6	.857
	Based on Median and with adjusted df	.159	2	4.264	.858
	Based on trimmed mean	.728	2	6	.521

ANOVA

SUDUT DIAM

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	51.826	2	25.913	11.279	.009
Within Groups	13.785	6	2.298		
Total	65.611	8			

SUDUT DIAM

Tukey B[a]

		Subset for alpha = 0.05	
FORMULA	N	1	2
F.1	3	24.2533	
F.3	3	26.4500	
F.2	3		30.0733

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

PENGETAPAN GRANUL

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	FORMULA	Statistic	df	Sig.	Statistic	df	Sig.
PENGETAPAN	F.1	.385	3	.	.750	3	.000
	F.2	.204	3	.	.993	3	.843
	F.3	.253	3	.	.964	3	.637

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
PENGETAPAN	Based on Mean	2.400	2	6	.171
	Based on Median	1.647	2	6	.269
	Based on Median and with adjusted df	1.647	2	3.229	.321
	Based on trimmed mean	2.354	2	6	.176

Residuals Statistics[a]

	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	4.72	9.06	6.89	1.876	9
Residual	-4.056	8.111	.000	4.073	9
Std. Predicted Value	-1.155	1.155	.000	1.000	9
Std. Residual	-.931	1.863	.000	.935	9

a. Dependent Variable: PENGETAPAN

One-Sample Kolmogorov-Smirnov Test

		Unstandardized Residual
N		9
Normal Parameters[a,b]	Mean	.0000000
	Std. Deviation	4.07311647
Most Extreme Differences	Absolute	.269
	Positive	.269
	Negative	-.160
Test Statistic		.269
Asymp. Sig. (2-tailed)		.060[c]

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

Descriptives

Unstandardized Residual

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
F.1	3	-2.3888889	.57735027	.33333333	-3.8231065	-.9546713	-2.72222	-1.72222
F.2	3	4.7777778	3.51188458	2.02758751	-3.9462272	13.5017827	1.11111	8.11111
F.3	3	-2.3888889	1.52752523	.88191710	-6.1834719	1.4056941	-4.05556	-1.05556
Total	9	.0000000	4.07311647	1.35770549	-3.1308745	3.1308745	-4.05556	8.11111

ANOVA

Unstandardized Residual

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	102.722	2	51.361	10.272	.012
Within Groups	30.000	6	5.000		
Total	132.722	8			

Unstandardized Residual

Tukey B[a]

		Subset for alpha = 0.05	
FORMULA	N	1	2
F.3	3	-2.3888889	
F.1	3	-2.3888889	
F.2	3		4.7777778

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

SUSUT PENGERINGAN

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Formula	Statistic	df	Sig.	Statistic	df	Sig.
Susut Pengeringan	F.1	.385	3	.	.750	3	.000
	F.2	.	3	.	.	3	.
	F.3	.196	3	.	.996	3	.878

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Susut Pengeringan	Based on Mean	4.918	2	6	.054
	Based on Median	.752	2	6	.511
	Based on Median and with adjusted df	.752	2	2.805	.548
	Based on trimmed mean	4.377	2	6	.067

Residuals Statistics[a]

	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	2.833	3.700	3.267	.3753	9
Residual	-1.2667	1.3000	.0000	1.0182	9
Std. Predicted Value	-1.155	1.155	.000	1.000	9
Std. Residual	-1.164	1.194	.000	.935	9

a. Dependent Variable: Susut Pengeringan

One-Sample Kolmogorov-Smirnov Test

		Unstandardized Residual
N		9
Normal Parameters[a,b]	Mean	.0000000
	Std. Deviation	1.01816829
Most Extreme Differences	Absolute	.232
	Positive	.227
	Negative	-.232
Test Statistic		.232
Asymp. Sig. (2-tailed)		.179[c]

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Unstandardized Residual	Based on Mean	4.918	2	6	.054
	Based on Median	.752	2	6	.511
	Based on Median and with adjusted df	.752	2	2.805	.548
	Based on trimmed mean	4.377	2	6	.067

ANOVA

Unstandardized Residual

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	7.220	2	3.610	20.180	.002
Within Groups	1.073	6	.179		
Total	8.293	8			

Unstandardized Residual

Tukey B[a]

		Subset for alpha = 0.05	
FORMULA	N	1	2
F.2	3	-1.2666667	
F.1	3		.6333333
F.3	3		.6333333

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

B. Uji Mutu Fisik Tablet

KERAGAMAN BOBOT

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Formula	Statistic	df	Sig.	Statistic	df	Sig.
Keragaman Bobot	F.1	.150	60	.002	.924	60	.001
	F.2	.130	60	.013	.955	60	.026
	F.3	.178	60	.000	.952	60	.020

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Keragaman Bobot	Based on Mean	.495	2	177	.610
	Based on Median	.478	2	177	.621
	Based on Median and with adjusted df	.478	2	167.239	.621
	Based on trimmed mean	.474	2	177	.623

Residuals Statistics[a]

	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	600.34	602.47	601.41	.873	180
Residual	-6.406	5.661	.000	2.475	180
Std. Predicted Value	-1.221	1.221	.000	1.000	180
Std. Residual	-2.580	2.281	.000	.997	180

a. Dependent Variable: Keragaman Bobot

One-Sample Kolmogorov-Smirnov Test

		Unstandardized Residual
N		180
Normal Parameters[a,b]	Mean	.0000000
	Std. Deviation	2.47542233
Most Extreme Differences	Absolute	.093
	Positive	.082
	Negative	-.093
Test Statistic		.093
Asymp. Sig. (2-tailed)		.001[c]

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

UJI KRUSKAL WALLIS

Ranks

	Formula	N	Mean Rank
Unstandardized Residual	F.1	60	99.50
	F.2	60	61.58
	F.3	60	110.42
	Total	180	

Test Statistics[a,b]

	Unstandardized Residual
Kruskal-Wallis H	29.110
df	2
Asymp. Sig.	.000

a. Kruskal Wallis Test

b. Grouping Variable: Formula

Hypothesis Test Summary

	Null Hypothesis	Test	Sig.	Decision
1	The distribution of Keragaman Bobot is the same across categories of Formula.	Independent-Samples Kruskal-Wallis Test	.000	Reject the null hypothesis.

Asymptotic significances are displayed. The significance level is .050.

Independent-Samples Kruskal-Wallis Test Summary

Total N	180
Test Statistic	44.884[a]
Degree Of Freedom	2
Asymptotic Sig.(2-sided test)	.000

a. The test statistic is adjusted for ties.

Pairwise Comparisons of Formula

Sample 1-Sample 2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj. Sig.[a]
F.2-F.3	-23.325	9.428	-2.474	.013	.040
F.2-F.1	62.500	9.428	6.629	.000	.000
F.3-F.1	39.175	9.428	4.155	.000	.000

Each row tests the null hypothesis that the Sample 1 and Sample 2 distributions are the same.

Asymptotic significances (2-sided tests) are displayed. The significance level is .05.

a. Significance values have been adjusted by the Bonferroni correction for multiple tests.

KEPARUHAN

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	FORMULA	Statistic	df	Sig.	Statistic	df	Sig.
KERAPUHAN	F.1	.340	3	.	.849	3	.239
	F.2	.337	3	.	.854	3	.250
	F.3	.299	3	.	.915	3	.433

a. Lilliefors Significance Correction

Descriptives

KERAPUHAN

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
F.1	3	.54833	.072155	.041659	.36909	.72758	.498	.631
F.2	3	.86133	.057361	.033118	.71884	1.00383	.821	.927
F.3	3	.66000	.088882	.051316	.43921	.88079	.560	.730
Total	9	.68989	.151561	.050520	.57339	.80639	.498	.927

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
KERAPUHAN	Based on Mean	.513	2	6	.623
	Based on Median	.097	2	6	.909
	Based on Median and with adjusted df	.097	2	5.666	.909
	Based on trimmed mean	.453	2	6	.656

ANOVA

KERAPUHAN

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.151	2	.075	13.811	.006
Within Groups	.033	6	.005		
Total	.184	8			

KERAPUHAN

Tukey B[a]

		Subset for alpha = 0.05	
FORMULA	N	1	2
F.1	3	.54833	
F.3	3	.66000	
F.2	3		.86133

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

KEKERASAN

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	FORMULA	Statistic	df	Sig.	Statistic	df	Sig.
KEKERASAN	F.1	.190	6	.200*	.945	6	.700
	F.2	.200	6	.200*	.958	6	.801
	F.3	.244	6	.200*	.845	6	.144

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Descriptives

KEKERASAN

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
F.1	6	6.733	.5680	.2319	6.137	7.329	6.1	7.6
F.2	6	4.317	.2229	.0910	4.083	4.551	4.0	4.6
F.3	6	5.833	.7339	.2996	5.063	6.604	5.2	7.2
Total	18	5.628	1.1493	.2709	5.056	6.199	4.0	7.6

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
KEKERASAN	Based on Mean	1.687	2	15	.218
	Based on Median	1.232	2	15	.320
	Based on Median and with adjusted df	1.232	2	9.016	.337
	Based on trimmed mean	1.496	2	15	.256

ANOVA

KEKERASAN

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	17.901	2	8.951	29.475	.000
Within Groups	4.555	15	.304		
Total	22.456	17			

KEKERASAN

Tukey B[a]

FORMULA	N	Subset for alpha = 0.05		
		1	2	3
F.2	6	4.317		
F.3	6		5.833	
F.1	6			6.733

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Lampiran 12. COA (*Certificate of Analysis*)

Magnesium Hidroksida

KONOSHIMA
CHEMICAL CO., LTD.
1-3-15, AWAZA, NISHI-KU, OSAKA, 550-0011 JAPAN
TEL: +81-6-6110-1122 FAX: +81-6-6110-1210
Email : info@konoshima.co.jp
URL : http://www.konoshima.co.jp

CERTIFICATE OF ANALYSIS

DATE Sep. 3, 2021

MAGNESIUM HYDROXIDE USP 43

Lot No.		210901	specification
Identification		conforms	conforms
Microbial test		passes test	passes test
Loss on drying	%	0.6	2.0 max
Loss on ignition	%	31.7	30.0-33.0
Soluble salts	mg	5	10 max
Carbonate		passes test	passes test
Calcium	%	0.3	1.5 max
Lead	ppm	0.2	1.5 max
Assay	%	98.6	95.0-100.5
Bulk density	g/mL	0.34	0.2-0.5

QUANTITY 9,000 kg
INVOICE NO W.I 670
Date of manufacturing Jun 22, 2021
Date of expiry Jun 22, 2024
MANUFACTURED PLACE Takuma Factory
567 Kyobi, Takuma-cho, Mitoyo-gun, Kagawa, Japan

Q.A. Manager
Konoshima Chemical Co. Ltd.

Aluminiujm Hidroksida

LOBA Chemie
LABORATORY REAGENTS & FINE CHEMICALS
ISO 9001:2015 CERTIFIED

CERTIFICATE OF ANALYSIS

Product Name	: ALUMINIUM HYDROXIDE GEL Extra Pure Conforming to IP		
Lot No.	: G220730	Analysed On	: 09-Jul-2022
Mol. Formula	: Al(OH)3	Mol. Weight	: 78.0
Code No.	: 00910	CAS No.	: 21645-51-2
Mfg. Date	: Jul-2022	Exp. Date	: Jun-2027
HAZ. / P.G.	: -	UN No.	: -

Sr.	Tests	Specifications	Results
1	Appearance	White, light, amorphous powder	White light, amorphous powder
2	Assay (as Al2O3)	47.0 - 60.0%	58.18%
3	Identification	Passes IP test	Passe test
4	pH (4% w/v solution in water)	Max 10.0	9.89
5	Arsenic (As)	Max 0.0005%	<0.0005%
6	Heavy metal	Max 0.005%	0.0050%
7	Chloride (Cl)	Max 1.25%	0.06%
8	Sulphate (SO4)	Max 1.2%	1.17%
9	Neutralising capacity	Passes IP test	passes test
10	Microbial contamination	Free from E.Coli	Passes test

CONCLUSION :-This above product complies as per the specifications of LOBA CHEMIE PVT. LTD.

Kavita
Chemist

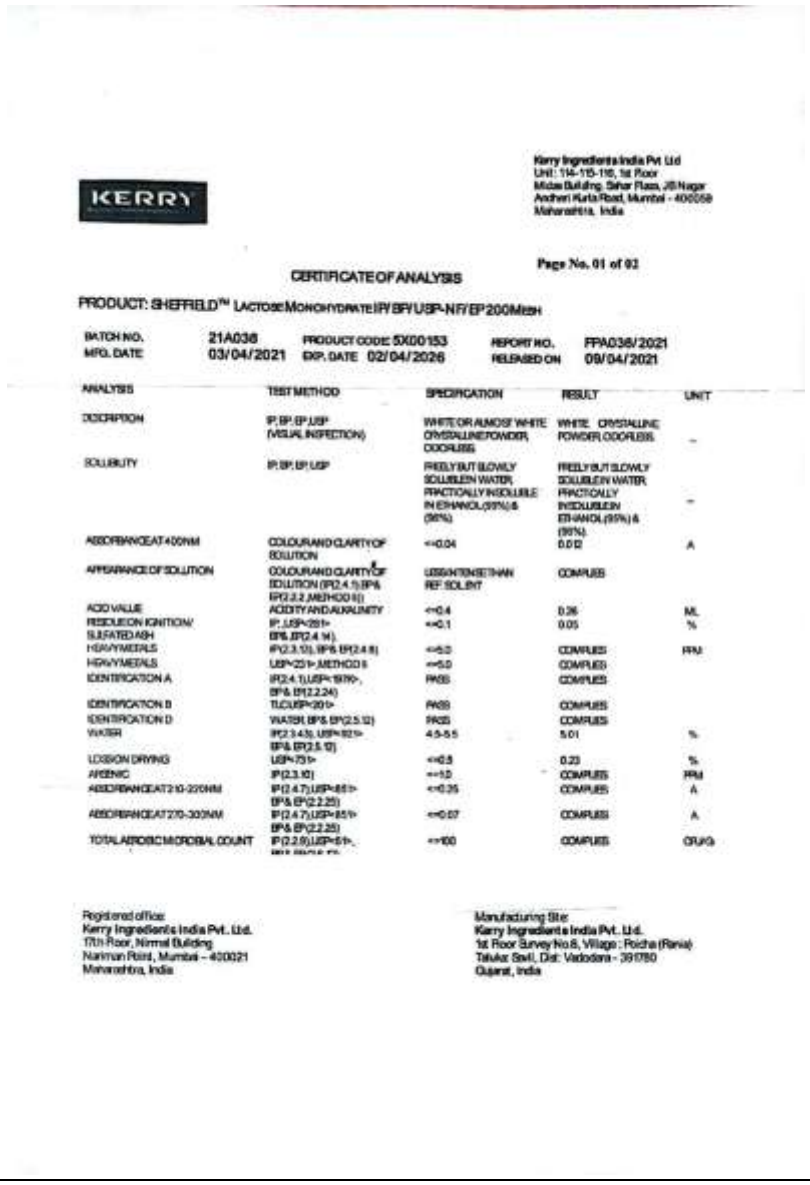
Shashikant Gaikwad
QC Manager

LOBA CHEMIE PVT. LTD.

Works : Plot No. D-22, MIDC, Tarapur Industrial Area, Tarapur, Boisar, Taluka- Palghar, Dist. Palghar, Pin-401506.
Tel: 91-02525-663630/31/34

Regd Office : 107 Wode House Road, Jehangir Villa, Colaba, Mumbai-400005.
Tel: 91 22 6663 6663, Fax: 91 22 2215 1099
info@lobachemie.com | www.lobachemie.com

Laktosa Monohidrate



KERRY

Kerry Ingredients India Pvt Ltd
Unit: 114-115-116, 1st Floor
Midas Building, Sahar Plaza, JB Nagar
Andheri Kurla Road, Mumbai - 400059
Maharashtra, India

Page No. 01 of 02

CERTIFICATE OF ANALYSIS

PRODUCT: SHEFFIELD™ LACTOSE MONOHYDRATE IP/ BP/ USP-NF/ EP 200 MESH

BATCH NO.	21A036	PRODUCT CODE: 5X00153		REPORT NO.	FPA036/2021
MFG. DATE	03/04/2021	EXP. DATE	02/04/2026	RELEASED ON	09/04/2021

ANALYSIS	TEST METHOD	SPECIFICATION	RESULT	UNIT
DESCRIPTION	IP, BP, EP, USP (VISUAL INSPECTION)	WHITE OR ALMOST WHITE CRYSTALLINE POWDER, ODORLESS	WHITE CRYSTALLINE POWDER, ODORLESS	-
SOLUBILITY	IP, BP, EP, USP	FREELY BUT SLOWLY SOLUBLE IN WATER, PRACTICALLY INSOLUBLE IN ETHANOL (95%) & (96%)	FREELY BUT SLOWLY SOLUBLE IN WATER, PRACTICALLY INSOLUBLE IN ETHANOL (95%) & (96%)	-
ABSORBANCE AT 400NM	COLOUR AND CLARITY OF SOLUTION	<=0.04	0.010	A
APPEARANCE OF SOLUTION	COLOUR AND CLARITY OF SOLUTION (IP(2.4.1),BP& EP(2.2.2,METHOD II))	LESS INTENSE THAN REF. SOLENT	COMPLIES	
ACID VALUE	ACIDITY AND ALKALINITY	<=0.4	0.26	ML
RESIDUE ON IGNITION/ SULFATED ASH	IP, USP<281> BP& EP(2.4.14),	<=0.1	0.05	%
HEAVY METALS	IP(2.3.10), BP& EP(2.4.8)	<=5.0	COMPLIES	PPM
HEAVY METALS	USP<231> METHOD II	<=5.0	COMPLIES	
IDENTIFICATION A	IP(2.4.1),USP<197K>, BP& EP(2.2.24)	PASS	COMPLIES	
IDENTIFICATION B	TLC,USP<201>	PASS	COMPLIES	
IDENTIFICATION D	WATER, BP& EP(2.5.12)	PASS	COMPLIES	
WATER	IP(2.3.43), USP<921> BP& EP(2.5.12)	4.5-5.5	5.01	%
LOSS ON DRYING	USP<731>	<=0.5	0.23	%
ARSENIC	IP(2.3.10)	<=1.0	COMPLIES	PPM
ABSORBANCE AT 210-220NM	IP(2.4.7),USP<85> BP& EP(2.2.25)	<=0.35	COMPLIES	A
ABSORBANCE AT 270-300NM	IP(2.4.7),USP<85> BP& EP(2.2.25)	<=0.07	COMPLIES	A
TOTAL AEROBIC MICROBIAL COUNT	IP(2.2.9),USP<61>,	<=100	COMPLIES	CFU/G

Registered office:
Kerry Ingredients India Pvt. Ltd.
17th Floor, Nirmal Building
Nariman Point, Mumbai – 400021
Maharashtra, India

Manufacturing Site:
Kerry Ingredients India Pvt. Ltd.
1st Floor Survey No.8, Village : Poicha (Rania)
Taluka: Savli, Dist: Vadodara - 391780
Gujarat, India

Manitol

青岛明月海藻集团有限公司

甘露醇检验报告

QINGDAO BRIGHT MOON SEAWEED GROUP CO.,LTD

MANNITOL INSPECTION REPORT

产品名称 Product Name	甘露醇 MANNITOL	产品规格 Specifications	药用辅料 (Pharmaceutical excipients)
生产批号 Batch No.	11362101009	数量,kg Quantity	11000
包装规格 Packing Size	25KG/袋 bags	生产日期 Production Date	01/06/2021
检验日期 Test Date	01/10/2021	有效期 Valid Date	01/05/2024
状,Characters	白色结晶性粉末,无臭,White crystalline powder,odorless.		

	项目 (Item)	标准要求 (Standard)	检测结果 (Test Result)	检测依据 (Testing grounds)	单项判定 (Individual decision)
检测结果 Test Result	鉴别(Identification)	Be consistent with the refer	Be consistent with the refer	USP	qualified
	澄清度与颜色 (Clarity&Colour)	Clear and Colorless	Clear and Colorless	USP	qualified
	干燥失重(Loss On Drying),%	≤0.5	0.03	USP	qualified
	镍（Nickel），ppm	≤1.0	未检出 (LOD=0.036)	USP	qualified
	山梨醇醇（Sorbitol），%	≤2.0	0.052	USP	qualified
	麦芽糖醇和异麦芽糖醇 (Maltitol and Isomalt)，%	≤2.0	0.022	USP	qualified
	不确定杂质,% (Unspecifiedimpurities)	≤0.1	0.048	USP	qualified
	总杂质（Total Impurities），%	≤2.0	0.12	USP	qualified
	含量(Assay),%	97.0-102.0	99.9	USP	qualified
	熔点(Melting Point),℃	165.0-170.0	166.5-167.5	USP	qualified
	还原糖(Reducing Sugar),%	≤0.1	<0.1	USP	qualified
	电导率（Conductivity），μS/cm	≤20	1.2	USP	qualified
	需氧菌总数（Total aerobic bacteria），CFU/g	$\leq 10^3$	<10	USP	qualified
	霉菌和酵母菌（Moulds and Yeasts），CFU/g	$\leq 10^2$	<10	USP	qualified
	大肠杆菌（Escherichia coli）	Negative	Negative	USP	qualified
日期 Date	检验报告出具日期：2021.01.21 签发日期(Issue date): 2021.01.21 检验报告专用章(Seal)				
备注 Remarks					

批准(Approved by):

审核(Checked by):

编制(Edited by):

PVP K-30

CDA Code: JHNHPK30#0|USP41|0002

JH Nanhang Life Sciences Co., Ltd.

Certificate of Analysis

Product Name	Povidone K30	Batch No.	PK30-210518#23	Date of Mfg	2021/05/18
Quantity	6000KG	Packaging	25KG/Fiber Drum	Expiry Date	2023/05/17
Source	PVP Workshop	Reference	USP41		

No.	Items	Specification	Test Results
1.	Appearance	White or yellowish white, hygroscopic powder	Complies
2.	Solubility	Freely soluble in water, ethanol (95%), methanol, very slightly soluble in acetone	Complies
3.	Identification A, B, C, D, E	Positive	Complies
4.	Appearance of solution	Clear and NMT B$_6$, BY$_5$, or R$_5$	Complies
5.	pH	3.0-5.0	3.5
6.	K-Value	27.0-32.4	28.3
7.	Aldehydes, ppm	≤ 500	54.2
8.	Peroxides, ppm	≤ 400	12.4
9.	Formic acid, %	≤ 0.5	0.2
10.	Hydrazine, ppm	≤ 1	<1
11.	Impurity A(1-vinylpyrrolidin-2-one), ppm	≤ 10	0.10
12.	Impurity D(2-pyrrolidone), %	≤ 5.0	1.3
13.	Heavy metals, ppm	≤10	<10
14.	Lead, ppm	≤ 10	<10
15.	Water, %	≤ 5.0	2.8
16.	Inhibited ash, %	≤ 0.1	0.07
17.	Nitrogen content, %	11.7 - 12.8	12.1
18.	* Total Aerobic Plate count, CFU/g	≤100	<10
19.	* Total Mold/Yeast count, CFU/g	≤100	<10
20.	* Coli, CFU/g	Not detected	Complies
21.	* Staphylococcus Aureus, CFU/g	Not detected	Complies
22.	* Pseudomonas Aeruginosa, CFU/g	Not detected	Complies
23.	* Salmonella, CFU/g	Not detected	Complies

Note: The above tests with * are performed outsourcing.

Conclusion: Material meets the requirement for Povidone in USP41.

Completed by: Wu Lianjun — Signature: [illegible] — Date: 25/5/2021

QC Manager: Tang Mengxia — Signature: [illegible] — Date: 25/5/2021

Released by QA Manager: Zhang Ming — Signature: [illegible] — Date: 31/5/2021

Factory address: No.16 Liuyin Road, Hi-Tech Industrial Zone, Quzhou, Zhejiang, P. R. China

Essence Mint

FUYANG BEST FLAVOR PERFUMERY CO.,LTD.
Yingzhou Industry Park,Fuyang City Anhui Province,China

CERTIFICATE OF ANALYSIS

Article	NATURAL PEPPERMINT OIL 50% Polar Bear Brand		
Batch number	2507013	Packing	50 GALVANIZED IRON DRUM
Quantity(Drums)	55	Weight(kg)	2750
Report date	JULY.14,2020	Testing Standard	USP24
Manufacturing Date	JULY.13,2020	Expiry Date	JULY.12,2025
INVOICE NO.	GLG070228		
Item	Standard		Read-test data
	USP24		
Description	Slightly Yellow clear liquid. Color No.6 Maximum		Complies with standard
Odour	Having a Characteristic odor of mentha avensis peppermint oil		Complies with standard
Relative Density (20/20℃)	0.899-0.908		0.8919
Refractive Index(20℃):	1.4560-1.4660		1.4589
Optical Rotation(20℃)	-24°~-17°		-24.23°
Solubility (20℃ 70%Ethanol)	1ml: 4ml		Complies with standard
Acid value(mg KOH/g)	1.0 Maximum		0.76
L-menthol	Min 33%		34.35%
Ester content (menthylacetate%)	3.0-9.0		7.4
Total Menthol Content	50% Minimum		51%
Conclusion	Analytical results conforming to standard USP24		

Inspector:Tao Zhang　　Principal Direct:Liu

张涛　　刘宪伟

阜阳市百富安香料有限公司
FUYANG BEST FLAVOR PERFUMERY CO., LTD.