

LAMPIRAN

LAMPIRAN 1. Data Viskositas Gel Karagenan

Ulangan	Larutan NaCl					Larutan CaCl ₂				
	0 M	0,01 M	0,05 M	0,1 M	0,5 M	0 M	0,01 M	0,05 M	0,1 M	0,5 M
1	66	93	64	54	17	66	60	39	36	16
2	64	94	66	52	16	64	60	42	42	15
3	63	93	67	52	18	63	60	38	37	18

LAMPIRAN 2. Data Waktu Pembentukan Gel Karagenan

Ulangan	Larutan NaCl					Larutan CaCl ₂				
	0 M	0,01 M	0,05 M	0,1 M	0,5 M	0 M	0,01 M	0,05 M	0,1 M	0,5 M
1	34	11	16	20	21	34	22	24	26	50
2	33	13	18	18	18	33	22	24	25	49
3	32	13	17	19	22	32	21	25	26	51

LAMPIRAN 3. Data Kekuatan Gel Karagenan

Ulangan	Larutan NaCl					Larutan CaCl ₂				
	0 M	0,01 M	0,05 M	0,1 M	0,5 M	0 M	0,01 M	0,05 M	0,1 M	0,5 M
1	31,85	73,57	52,21	49,16	31,78	31,85	136,91	115,99	64,97	9,42
2	32,56	72,39	53,07	49,98	32,82	31,30	135,96	114,90	67,80	9,25
3	31,30	71,59	54,88	51,40	32,42	32,56	134,95	115,54	65,65	9,56

LAMPIRAN 4. Uji Beda Antar Konsentrasi Parameter Viskositas

V_NaCl

Duncan^a

Konsentrasi	N	Subset for alpha = .05			
		1	2	3	4
0,5 M	3	17,0000			
0,1 M	3		52,6667		
0 M	3			64,3333	
0,05 M	3			65,6667	
0,01 M	3				93,3333
Sig.		1,000	1,000	,207	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

V_CaCl2Duncan^a

Konsentrasi	N	Subset f or alpha = .05			
		1	2	3	4
0,5 M	3	16,3333			
0,1 M	3		38,3333		
0,05 M	3		39,6667		
0,01 M	3			60,0000	
0 M	3				64,3333
Sig.		1,000	,426	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

LAMPIRAN 5. Uji Beda Antar Konsentrasi Parameter Waktu Pembentukan Gel**GST_NaCl**Duncan^a

Konsentrasi	N	Subset f or alpha = .05			
		1	2	3	4
0,01 M	3	12,3333			
0,05 M	3		17,0000		
0,1 M	3		19,0000	19,0000	
0,5 M	3			20,3333	
0 M	3				33,0000
Sig.		1,000	,092	,243	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

GST_CaCl2Duncan^a

Konsentrasi	N	Subset f or alpha = .05			
		1	2	3	4
0,01 M	3	21,6667			
0,05 M	3	24,3333	24,3333		
0,1 M	3		25,6667		
0 M	3			35,0000	
0,5 M	3				50,0000
Sig.		,089	,368	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

LAMPIRAN 6. Uji Beda Antar Konsentrasi Parameter Kekuatan Gel

GS_NaCl

Duncan^a

Konsentrasi	N	Subset f or alpha = .05			
		1	2	3	4
0 M	3	31,9040			
0,5 M	3	32,3390			
0,1 M	3		50,1793		
0,05 M	3			53,3870	
0,01 M	3				72,5183
Sig.		,599	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

GS_CaCl2

Duncan^a

Konsentrasi	N	Subset f for alpha = .05				
		1	2	3	4	5
0,5 M	3	9,4090				
0 M	3		31,9040			
0,1 M	3			66,1400		
0,05 M	3				115,4767	
0,01 M	3					135,9413
Sig.		1,000	1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

LAMPIRAN 7. Uji Beda Antar Jenis Garam (T-Test)

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
Viskositas	Equal variances assumed	,766	,389	1,842	28	,076	14,8667	8,0695	-1,6630	31,3963
	Equal variances not assumed			1,842	25,059	,077	14,8667	8,0695	-1,7508	31,4841
Gel_Setting_Time	Equal variances assumed	3,618	,067	-3,278	28	,003	-11,0000	3,3556	-17,8737	-4,1263
	Equal variances not assumed			-3,278	24,361	,003	-11,0000	3,3556	-17,9203	-4,0797
Gel_Strength	Equal variances assumed	25,248	,000	-1,761	28	,089	-23,708667	13,460600	-51,2815	3,864122
	Equal variances not assumed			-1,761	16,745	,096	-23,708667	13,460600	-52,1410	4,723710

LAMPIRAN 8. Analisa Korelasi antara Ketiga Parameter

Correlations

		Viskositas	Gel_Setting_Time	Gel_Strength
Viskositas	Pearson Correlation	1	-,488**	,276
	Sig. (2-tailed)		,006	,140
	N	30	30	30
Gel_Setting_Time	Pearson Correlation	-,488**	1	-,503**
	Sig. (2-tailed)	,006		,005
	N	30	30	30
Gel_Strength	Pearson Correlation	,276	-,503**	1
	Sig. (2-tailed)	,140	,005	
	N	30	30	30

** . Correlation is significant at the 0.01 level (2-tailed).

LAMPIRAN 9. Pembuatan Larutan Garam

$$M = \frac{\text{gram}}{\text{Mr}} \times \frac{1000}{\text{ml}}$$

$$\text{gram} = M \times \text{Mr} \times \frac{\text{ml}}{1000}$$

$$\text{Mr NaCl} = 35,5$$

$$\text{Mr CaCl}_2 = 111$$

Volume larutan yang akan dibuat (ml) = 100 ml

- NaCl 0,01M

$$\begin{aligned} \text{Jumlah NaCl} &= 0,01 \times 35,5 \times \frac{100}{1000} \\ &= 0,0585 \text{ gram} \end{aligned}$$

- NaCl 0,05M

$$\begin{aligned} \text{Jumlah NaCl} &= 0,05 \times 35,5 \times \frac{100}{1000} \\ &= 0,2925 \text{ gram} \end{aligned}$$

- NaCl 0,1M

$$\begin{aligned} \text{Jumlah NaCl} &= 0,1 \times 35,5 \times \frac{100}{1000} \\ &= 0,585 \text{ gram} \end{aligned}$$

- NaCl 0,5M

$$\begin{aligned} \text{Jumlah NaCl} &= 0,5 \times 35,5 \times \frac{100}{1000} \\ &= 2,925 \text{ gram} \end{aligned}$$

- CaCl₂ 0,01M

$$\begin{aligned} \text{Jumlah CaCl}_2 &= 0,01 \times 111 \times \frac{100}{1000} \\ &= 0,111 \text{ gram} \end{aligned}$$

- CaCl₂ 0,05M

$$\begin{aligned} \text{Jumlah CaCl}_2 &= 0,05 \times 111 \times \frac{100}{1000} \\ &= 0,555 \text{ gram} \end{aligned}$$

- CaCl_2 0,1M

$$\begin{aligned}\text{Jumlah CaCl}_2 &= 0,1 \times 111 \times \frac{100}{1000} \\ &= 1,11 \text{ gram}\end{aligned}$$

- CaCl_2 0,5M

$$\begin{aligned}\text{Jumlah CaCl}_2 &= 0,5 \times 111 \times \frac{100}{1000} \\ &= 5,55 \text{ gram}\end{aligned}$$

