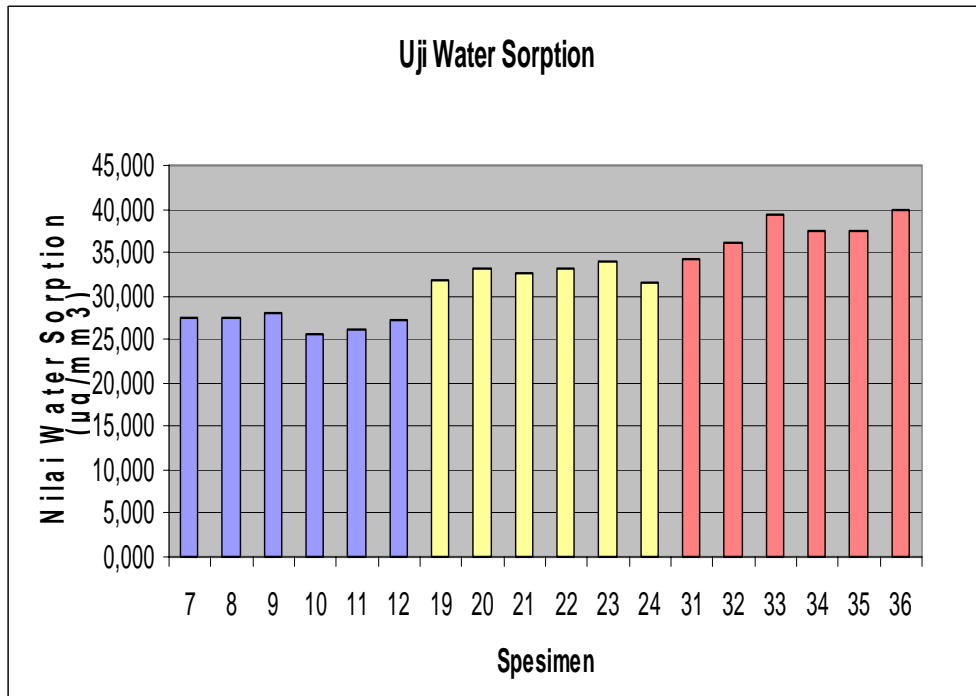


Lampiran 1. Grafik Nilai Penyerapan Air



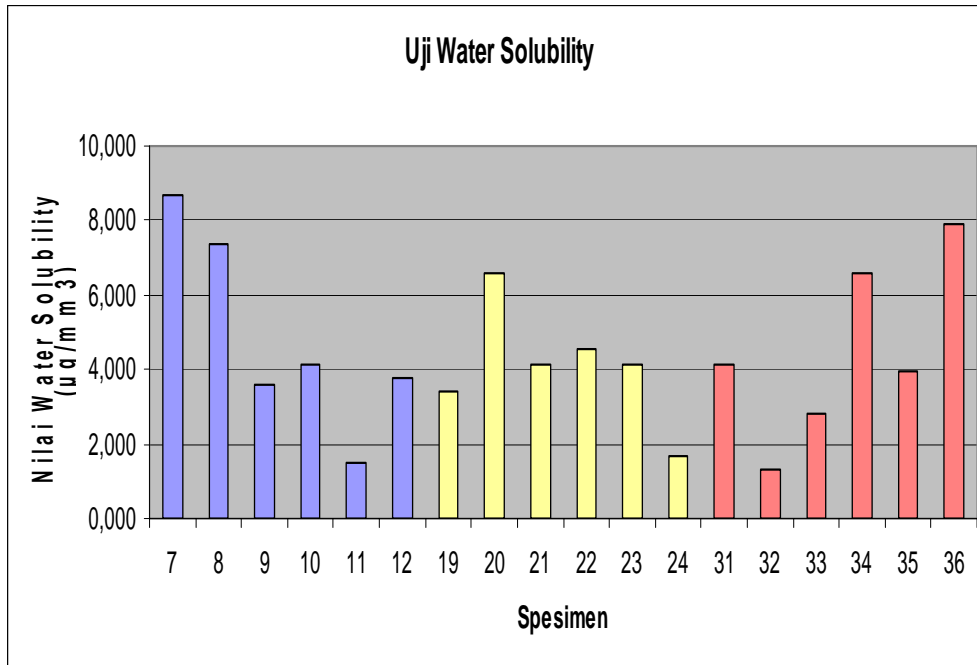
Keterangan :

Biru = lama perendaman 1 hari.

Kuning = lama perendaman 2 hari.

Merah = lama perendaman 7 hari.

Lampiran 2. Grafik Nilai Kelarutan bahan dalam air



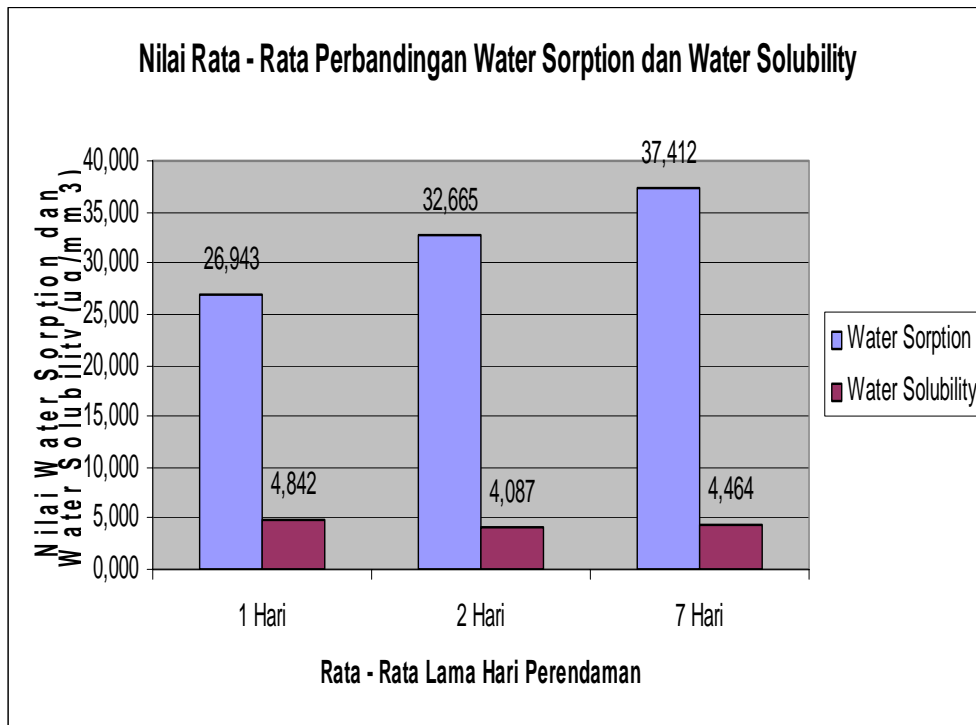
Keterangan :

Biru = lama perendaman 1 hari.

Kuning = lama perendaman 2 hari.

Merah = lama perendaman 7 hari.

Lampiran 3. Grafik nilai rata – rata penyerapan dan kelarutan air



## Lampiran 4. Data Statistik

## Tests of Normality(b,c)

	Waktu	Kolmogorov-Smirnov(a)			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Water_sorption	1 Hari	,256	6	,200(*)	,875	6	,247
	2 Hari	,185	6	,200(*)	,946	6	,708
	7 Hari	,191	6	,200(*)	,950	6	,740
Water_solubility	1 Hari	,269	6	,199	,920	6	,503
	2 Hari	,225	6	,200(*)	,948	6	,721
	7 Hari	,218	6	,200(*)	,962	6	,833

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

a Lilliefors Significance Correction

b Water\_sorption is constant when Waktu = 0 Hari. It has been omitted.

c Water\_solubility is constant when Waktu = 0 Hari. It has been omitted.

## Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Water_sorption	4,417	3	20	,015
Water_solubility	4,687	3	20	,012

## Kruskal-Wallis Test

## Ranks

	Waktu	N	Mean Rank
Water_sorption	0 Hari	6	3,50
	1 Hari	6	9,50
	2 Hari	6	15,50
	7 Hari	6	21,50
	Total	24	
Water_solubility	0 Hari	6	3,50
	1 Hari	6	15,92
	2 Hari	6	15,42
	7 Hari	6	15,17
	Total	24	

(lanjutan)

**Test Statistics(a,b)**

	Water_sorption	Water_solubilit y
Chi-Square	21,953	13,260
df	3	3
Asymp. Sig.	,000	,004

a Kruskal Wallis Test

b Grouping Variable: Waktu

**Ranks**

	Waktu	N	Mean Rank	Sum of Ranks
Water_sorption	0 Hari	6	3,50	21,00
	1 Hari	6	9,50	57,00
	Total	12		
Water_solubility	0 Hari	6	3,50	21,00
	1 Hari	6	9,50	57,00
	Total	12		

**Test Statistics(b)**

	Water_sorption	Water_solubilit y
Mann-Whitney U	,000	,000
Wilcoxon W	21,000	21,000
Z	-3,083	-3,077
Asymp. Sig. (2-tailed)	,002	,002
Exact Sig. [2*(1-tailed Sig.)]	,002(a)	,002(a)

a Not corrected for ties.

b Grouping Variable: Waktu

**Ranks**

	Waktu	N	Mean Rank	Sum of Ranks
Water_sorption	0 Hari	6	3,50	21,00
	2 Hari	6	9,50	57,00
	Total	12		
Water_solubility	0 Hari	6	3,50	21,00
	2 Hari	6	9,50	57,00
	Total	12		

(lanjutan)

**Test Statistics(b)**

	Water_sorption	Water_solubilit y
Mann-Whitney U	,000	,000
Wilcoxon W	21,000	21,000
Z	-3,077	-3,083
Asymp. Sig. (2-tailed)	,002	,002
Exact Sig. [2*(1-tailed Sig.)]	,002(a)	,002(a)

a Not corrected for ties.

b Grouping Variable: Waktu

**Ranks**

	Waktu	N	Mean Rank	Sum of Ranks
Water_sorption	0 Hari	6	3,50	21,00
	7 Hari	6	9,50	57,00
	Total	12		
Water_solubility	0 Hari	6	3,50	21,00
	7 Hari	6	9,50	57,00
	Total	12		

**Test Statistics(b)**

	Water_sorption	Water_solubilit y
Mann-Whitney U	,000	,000
Wilcoxon W	21,000	21,000
Z	-3,083	-3,077
Asymp. Sig. (2-tailed)	,002	,002
Exact Sig. [2*(1-tailed Sig.)]	,002(a)	,002(a)

a Not corrected for ties.

b Grouping Variable: Waktu

**Ranks**

	Waktu	N	Mean Rank	Sum of Ranks
Water_sorption	1 Hari	6	3,50	21,00
	2 Hari	6	9,50	57,00
	Total	12		
Water_solubility	1 Hari	6	6,67	40,00
	2 Hari	6	6,33	38,00
	Total	12		

(lanjutan)

**Test Statistics(b)**

	Water_sorption	Water_solubilit y
Mann-Whitney U	,000	17,000
Wilcoxon W	21,000	38,000
Z	-2,887	-,161
Asymp. Sig. (2-tailed)	,004	,872
Exact Sig. [2*(1-tailed Sig.)]	,002(a)	,937(a)

a Not corrected for ties.

b Grouping Variable: Waktu

**Ranks**

	Waktu	N	Mean Rank	Sum of Ranks
Water_sorption	1 Hari	6	3,50	21,00
	7 Hari	6	9,50	57,00
	Total	12		
Water_solubility	1 Hari	6	6,75	40,50
	7 Hari	6	6,25	37,50
	Total	12		

**Test Statistics(b)**

	Water_sorption	Water_solubilit y
Mann-Whitney U	,000	16,500
Wilcoxon W	21,000	37,500
Z	-2,892	-,241
Asymp. Sig. (2-tailed)	,004	,810
Exact Sig. [2*(1-tailed Sig.)]	,002(a)	,818(a)

a Not corrected for ties.

b Grouping Variable: Waktu

**Ranks**

	Waktu	N	Mean Rank	Sum of Ranks
Water_sorption	2 Hari	6	3,50	21,00
	7 Hari	6	9,50	57,00
	Total	12		
Water_solubility	2 Hari	6	6,58	39,50
	7 Hari	6	6,42	38,50
	Total	12		

(lanjutan)

**Test Statistics(b)**

	Water_sorption	Water_solubility
Mann-Whitney U	,000	17,500
Wilcoxon W	21,000	38,500
Z	-2,887	-,081
Asymp. Sig. (2-tailed)	,004	,936
Exact Sig. [2*(1-tailed Sig.)]	,002(a)	,937(a)

a Not corrected for ties.

b Grouping Variable: Waktu

## Lampiran 5. Tabel perubahan berat spesimen

**Tabel peren**

Lama Perendaman	Spesimen		
1 Hari	7	233,8	
	8	249,6	
	9	257,9	
	10	234,5	
	11	260,6	
	12	237,1	
<b>Rata - rata water sorption dan water soluk</b>			
2 Hari	19	222,8	
	20	260,0	
	21	265,3	
	22	226,9	
	23	224,2	
	24	248,0	
<b>Rata - rata water sorption dan water soluk</b>			
7 Hari	31	222,0	
	32	221,0	
	33	280,2	
	34	233,7	
	35	227,4	
	36	257,3	
<b>Rata - rata water sorption dan water solubility untuk lama perendaman 7 hari</b>			
0 Hari			



Lampiran 6 : Cara kerja penelitian



Lampiran 7 : Foto bersama pembimbing dan penguji



Pembimbing I : drg. Decky J Indrani, MDSc.

Pembimbing II : Dr. Ellyza Herda, drg, Msi.

Penguji : Dr. Yosi Kusuma Eriwati, drg,MSi & drg. Niti Matram.