

DAFTAR LAMPIRAN

Lampiran 1

a. Tabel rata-rata hasil pengukuran diameter silinder

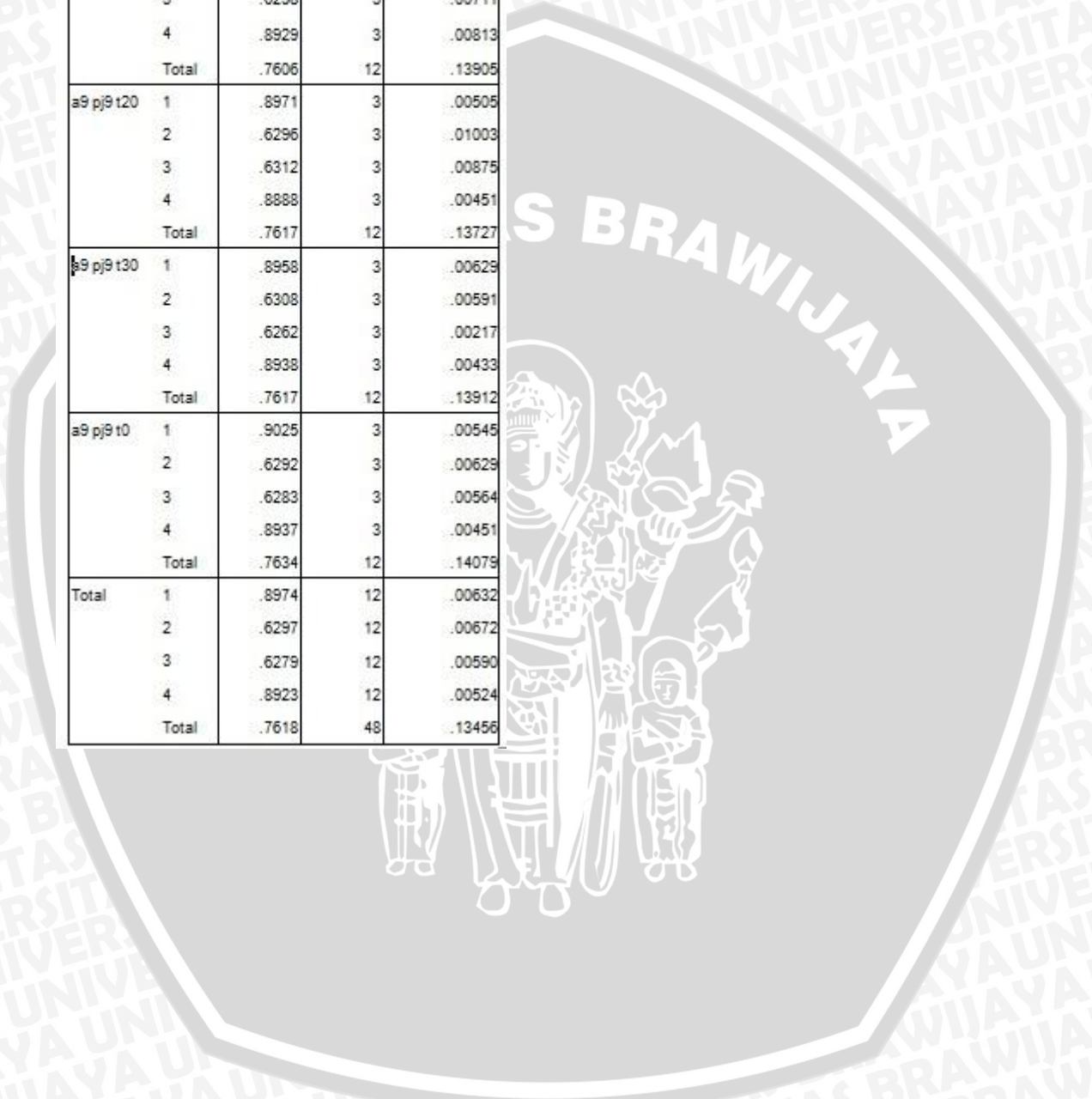
Descriptive Statistics

Dependent Variable: Diameter

Kelompok	Posisi	Mean	Std. Deviation	N
a18 t10	1	.8880	.00300	3
	2	.6327	.00404	3
	3	.6317	.00208	3
	4	.8857	.00306	3
	Total	.7595	.13303	12
a18 t20	1	.8863	.00635	3
	2	.6340	.00458	3
	3	.6330	.00265	3
	4	.8823	.00231	3
	Total	.7589	.13105	12
a18 t30	1	.8820	.00173	3
	2	.6300	.00265	3
	3	.6300	.00346	3
	4	.8843	.00473	3
	Total	.7566	.13225	12
a18 t0	1	.8893	.00513	3
	2	.6323	.00115	3
	3	.6373	.00404	3
	4	.8893	.00115	3
	Total	.7621	.13295	12
a12 pj6 t10	1	.8883	.00252	3
	2	.6327	.00404	3
	3	.6333	.00586	3
	4	.8887	.00321	3
	Total	.7608	.13348	12
a12 pj6 t20	1	.8870	.00173	3
	2	.6277	.00252	3
	3	.6290	.00100	3
	4	.8813	.00321	3
	Total	.7563	.13364	12
a12 pj6 t30	1	.8917	.00231	3
	2	.6333	.00379	3
	3	.6323	.00493	3
	4	.8790	.01803	3
	Total	.7591	.13220	12
a12 pj6 t0	1	.8877	.00153	3
	2	.6323	.00252	3
	3	.6320	.00361	3
	4	.8847	.00569	3
	Total	.7592	.13269	12
Total	1	.8875	.00391	24
	2	.6319	.00340	24
	3	.6323	.00393	24
	4	.8844	.00690	24
	Total	.7590	.12769	96

Diameter

Kelompok	posisi	Mean	N	Std. Deviation
a9 pj9 t10	1	.8942	3	.00813
	2	.6294	3	.00841
	3	.6258	3	.00711
	4	.8929	3	.00813
	Total	.7606	12	.13906
a9 pj9 t20	1	.8971	3	.00508
	2	.6296	3	.01003
	3	.6312	3	.00878
	4	.8888	3	.00451
	Total	.7617	12	.13727
a9 pj9 t30	1	.8958	3	.00629
	2	.6308	3	.00591
	3	.6262	3	.00217
	4	.8938	3	.00433
	Total	.7617	12	.13912
a9 pj9 t0	1	.9025	3	.00548
	2	.6292	3	.00629
	3	.6283	3	.00564
	4	.8937	3	.00451
	Total	.7634	12	.14079
Total	1	.8974	12	.00632
	2	.6297	12	.00672
	3	.6279	12	.00590
	4	.8923	12	.00524
	Total	.7618	48	.13456



b. Tabel rata-rata hasil pengukuran jarak silinder

Descriptive Statistics

Dependent Variable: Jarak

Kelompok	Posisi	Mean	Std. Deviation	N
a18 t10	1	3.1397	.02706	3
	2	3.2550	.00265	3
	3	3.1380	.02443	3
	4	5.6337	.00321	3
	Total	3.7916	1.11203	12
a18 t20	1	3.1320	.02425	3
	2	3.2540	.00100	3
	3	3.1397	.03197	3
	4	5.6283	.00208	3
	Total	3.7885	1.11074	12
a18 t30	1	3.1383	.02810	3
	2	3.2503	.00231	3
	3	3.1337	.02203	3
	4	5.6243	.00153	3
	Total	3.7867	1.10933	12
a18 t0	1	3.1427	.02363	3
	2	3.2557	.00252	3
	3	3.1470	.02352	3
	4	5.6330	.00000	3
	Total	3.7946	1.10971	12
a12 pj6 t10	1	3.1487	.00929	3
	2	3.2593	.00551	3
	3	3.1500	.00755	3
	4	5.6300	.00557	3
	Total	3.7970	1.10635	12
a12 pj6 t20	1	3.1443	.01767	3
	2	3.2557	.00379	3
	3	3.1490	.01808	3
	4	5.6267	.00603	3
	Total	3.7939	1.10622	12
a12 pj6 t30	1	3.1410	.00300	3
	2	3.2590	.00361	3
	3	3.1420	.01587	3
	4	5.6293	.00416	3
	Total	3.7928	1.10861	12
a12 pj6 t0	1	3.1463	.01877	3
	2	3.2510	.00624	3
	3	3.1513	.02026	3
	4	5.6300	.00656	3
	Total	3.7947	1.10768	12
Total	1	3.1416	.01796	24
	2	3.2550	.00445	24
	3	3.1438	.01897	24
	4	5.6294	.00461	24
	Total	3.7925	1.06721	96



Jarak

Kelompok	posisi	Mean	N	Std. Deviation
a9 pj9 t10	1	3.1546	3	.00753
	2	3.2496	3	.01252
	3	3.1600	3	.01772
	4	5.6312	3	.00545
	Total	3.7989	12	1.10572
a9 pj9 t20	1	3.1525	3	.01269
	2	3.2510	3	.01326
	3	3.1525	3	.01269
	4	5.6258	3	.00617
	Total	3.7955	12	1.10459
a9 pj9 t30	1	3.1608	3	.00617
	2	3.2438	3	.01375
	3	3.1592	3	.00505
	4	5.6204	3	.01161
	Total	3.7960	12	1.10075
a9 pj9 t0	1	3.1646	3	.00191
	2	3.2533	3	.00878
	3	3.1650	3	.00125
	4	5.6408	3	.00402
	Total	3.8059	12	1.10714
Total	1	3.1581	12	.00852
	2	3.2494	12	.01107
	3	3.1592	12	.01062
	4	5.6296	12	.01009
	Total	3.7991	48	1.06873

Lampiran 2

Hasil uji statistik alginat murni dan alginat campuran pati jagung 2:1

a. Uji Normalitas (Kolmogorov-sminorv)

Tests of Normality

	Kolmogorov -Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Jarak	.070	96	.200*	.985	96	.335
Diameter	.052	96	.200*	.989	96	.626

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

a. Lilliefors Significance Correction



b. Uji Homogenitas (jarak)

Descriptives

Jarak

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
					a18 t10	12		
a18 t20	12	3.7885	1.11074	.32064	3.0828	4.4942	3.11	5.63
a18 t30	12	3.7867	1.10933	.32024	3.0818	4.4915	3.11	5.63
a18 t0	12	3.7946	1.10971	.32034	3.0895	4.4997	3.12	5.63
a12 pj6 t10	12	3.7970	1.10635	.31938	3.0941	4.4999	3.14	5.64
a12 pj6 t20	12	3.7939	1.10622	.31934	3.0911	4.4968	3.12	5.63
a12 pj6 t30	12	3.7928	1.10861	.32003	3.0885	4.4972	3.12	5.63
a12 pj6 t0	12	3.7947	1.10768	.31976	3.0909	4.4985	3.13	5.64
Total	96	3.7925	1.06721	.10892	3.5762	4.0087	3.11	5.64

Test of Homogeneity of Variances

Jarak

Levene Statistic	df 1	df 2	Sig.
.000	7	88	1.000

c. Uji Homogenitas (diameter)

Descriptives

Diameter

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
					a18 t10	12		
a18 t20	12	.7589	.13105	.03783	.6756	.8422	.63	.89
a18 t30	12	.7566	.13225	.03818	.6726	.8406	.63	.89
a18 t0	12	.7621	.13295	.03838	.6776	.8466	.63	.90
a12 pj6 t10	12	.7607	.13348	.03853	.6759	.8456	.63	.89
a12 pj6 t20	12	.7563	.13364	.03858	.6713	.8412	.63	.89
a12 pj6 t30	12	.7591	.13220	.03816	.6751	.8431	.63	.89
a12 pj6 t0	12	.7592	.13269	.03830	.6749	.8435	.63	.89
Total	96	.7590	.12769	.01303	.7332	.7849	.63	.90

Test of Homogeneity of Variances

Diameter

Levene Statistic	df 1	df 2	Sig.
.398	7	88	.901



d. Uji One-way Anova (diameter)

ANOVA

Diameter

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.000	7	.000	.003	1.000
Within Groups	1.549	88	.018		
Total	1.549	95			

Uji One-way Anova (jarak)

ANOVA

Jarak

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.001	7	.000	.000	1.000
Within Groups	108.197	88	1.230		
Total	108.198	95			

Lampiran 3

Hasil uji statistik alginat murni dan alginat campuran pati jagung 1:1

a. Uji Normalitas

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Jarak	.070	96	.200*	.985	96	.335
Diameter	.052	96	.200*	.989	96	.626

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

a. Lilliefors Significance Correction

b. Uji Homogenitas (jarak)

Descriptives

Jarak

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
a18 t10	12	3.7915	1.11215	.32105	3.0848	4.4981	3.11	5.64
a18 t20	12	3.7884	1.11077	.32065	3.0827	4.4942	3.11	5.63
a18 t30	12	3.7866	1.10929	.32022	3.0818	4.4914	3.11	5.63
a18 t0	12	3.7944	1.10953	.32029	3.0894	4.4993	3.12	5.63
a9 pj9 t10	12	3.7989	1.10572	.31920	3.0963	4.5014	3.15	5.64
a9 pj9 t20	12	3.7955	1.10459	.31887	3.0936	4.4973	3.14	5.63
a9 pj9 t30	12	3.7960	1.10075	.31776	3.0967	4.4954	3.15	5.63
a9 pj9 t0	12	3.8059	1.10714	.31960	3.1025	4.5094	3.16	5.64
Total	96	3.7946	1.06593	.10879	3.5787	4.0106	3.11	5.64

Test of Homogeneity of Variances

Jarak

Levene Statistic	df 1	df 2	Sig.
.000	7	88	1.000

Uji Homogenitas (diameter)

Descriptives

Diameter

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
a18 t10	12	.7594	.13298	.03839	.6749	.8439	.63	.89
a18 t20	12	.7589	.13116	.03786	.6755	.8422	.63	.89
a18 t30	12	.7564	.13244	.03823	.6722	.8405	.63	.89
a18 t0	12	.7619	.13300	.03839	.6774	.8464	.63	.90
a9 pj9 t10	12	.7606	.13905	.04014	.6722	.8489	.62	.90
a9 pj9 t20	12	.7617	.13727	.03963	.6744	.8489	.62	.90
a9 pj9 t30	12	.7617	.13912	.04016	.6733	.8501	.63	.90
a9 pj9 t0	12	.7634	.14079	.04064	.6740	.8529	.62	.91
Total	96	.7605	.13069	.01334	.7340	.7870	.62	.91

Test of Homogeneity of Variances

Diameter

Levene Statistic	df 1	df 2	Sig.
.705	7	88	.667

c. Uji One-way Anova (diameter)



ANOVA

Diameter					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.000	7	.000	.003	1.000
Within Groups	1.622	88	.018		
Total	1.623	95			

Uji One-way Anova (jarak)

ANOVA

Jarak					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.003	7	.000	.000	1.000
Within Groups	107.937	88	1.227		
Total	107.940	95			

Lampiran 4

Tabel hasil pengukuran

- a. Tabel hasil pengukuran jarak dan diameter silinder pada model studi hasil cetakan alginat murni

S	alginat 18 gram, tanpa ditunda															
	1		2		3		4		5		6		7		8	
nama	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter
irna	3.15	0.9	3.15	0.89	3.16	0.9	3.15	0.89	3.15	0.9	3.15	0.9	3.14	0.89	3.16	0.89
	3.27	0.63	3.26	0.63	3.24	0.63	3.24	0.63	3.27	0.63	3.26	0.63	3.26	0.64	3.26	0.64
	3.15	0.64	3.15	0.64	3.15	0.63	3.17	0.65	3.16	0.64	3.17	0.64	3.17	0.64	3.18	0.65
	5.62	0.88	5.63	0.89	5.62	0.91	5.63	0.89	5.67	0.89	5.63	0.89	5.62	0.89	5.64	0.88
novi	3.11	0.89	3.14	0.89	3.1	0.89	3.1	0.89	3.11	0.88	3.13	0.89	3.11	0.88	3.13	0.89
	3.25	0.63	3.27	0.63	3.23	0.63	3.25	0.63	3.27	0.63	3.27	0.63	3.25	0.63	3.26	0.64
	3.11	0.63	3.16	0.62	3.1	0.63	3.1	0.63	3.12	0.63	3.15	0.63	3.1	0.63	3.12	0.66
	5.63	0.88	5.64	0.89	5.63	0.9	5.62	0.88	5.65	0.88	5.64	0.9	5.62	0.89	5.63	0.88
ratna	3.17	0.88	3.16	0.88	3.15	0.88	3.15	0.88	3.18	0.89	3.16	0.89	3.17	0.89	3.15	0.89
	3.25	0.63	3.24	0.63	3.24	0.63	3.24	0.64	3.27	0.63	3.25	0.63	3.26	0.63	3.27	0.64
	3.16	0.63	3.17	0.64	3.15	0.63	3.14	0.64	3.14	0.63	3.15	0.63	3.18	0.64	3.17	0.66
	5.63	0.88	5.63	0.89	5.62	0.89	5.63	0.88	5.67	0.9	5.64	0.89	5.63	0.89	5.61	0.9



P alginat 18 gram, ditunda 10 menit																	
nama	1		2		3		4		5		6		7		8		
	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	
irna	3.16	0.9	3.16	0.89	3.16	0.89	3.16	0.88	3.14	0.89	3.12	0.89	3.11	0.89	3.16	0.9	
	3.26	0.64	3.24	0.63	3.26	0.64	3.25	0.63	3.26	0.64	3.26	0.63	3.25	0.64	3.25	0.63	
	3.15	0.64	3.17	0.63	3.16	0.64	3.14	0.63	3.16	0.64	3.13	0.63	3.12	0.63	3.16	0.63	
	5.63	0.89	5.64	0.9	5.66	0.89	5.64	0.89	5.62	0.89	5.63	0.88	5.63	0.88	5.63	0.89	
novi	3.1	0.89	3.11	0.89	3.1	0.88	3.11	0.88	3.13	0.89	3.11	0.89	3.11	0.89	3.11	0.89	
	3.25	0.63	3.25	0.63	3.25	0.63	3.25	0.63	3.26	0.62	3.26	0.63	3.25	0.62	3.25	0.63	
	3.11	0.63	3.12	0.62	3.11	0.63	3.11	0.64	3.11	0.63	3.11	0.63	3.11	0.63	3.1	0.63	
	5.62	0.88	5.64	0.88	5.64	0.89	5.64	0.88	5.63	0.89	5.62	0.88	5.63	0.88	5.62	0.88	
ratna	3.16	0.89	3.14	0.89	3.16	0.87	3.17	0.88	3.18	0.88	3.15	0.89	3.17	0.89	3.17	0.89	
	3.25	0.64	3.25	0.63	3.26	0.64	3.26	0.63	3.27	0.63	3.26	0.65	3.25	0.63	3.26	0.63	
	3.15	0.64	3.16	0.62	3.15	0.63	3.15	0.64	3.16	0.63	3.16	0.64	3.17	0.62	3.14	0.63	
	5.63	0.89	5.65	0.88	5.66	0.87	5.64	0.88	5.62	0.89	5.62	0.89	5.64	0.89	5.63	0.89	

Q alginat 18 gram, ditunda 20 menit																	
nama	1		2		3		4		5		6		7		8		
	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	
irna	3.16	0.89	3.15	0.9	3.16	0.89	3.16	0.89	3.12	0.89	3.11	0.89	3.1	0.89	3.13	0.88	
	3.26	0.63	3.24	0.64	3.25	0.63	3.26	0.64	3.24	0.64	3.25	0.64	3.28	0.64	3.25	0.64	
	3.12	0.63	3.17	0.64	3.25	0.64	3.14	0.63	3.12	0.64	3.12	0.64	3.14	0.62	3.11	0.63	
	5.62	0.87	5.64	0.89	5.65	0.89	5.63	0.88	5.62	0.89	5.63	0.88	5.62	0.89	5.63	0.89	
novi	3.1	0.89	3.11	0.9	3.1	0.89	3.11	0.89	3.11	0.89	3.11	0.89	3.11	0.89	3.1	0.88	
	3.25	0.63	3.26	0.62	3.25	0.63	3.25	0.63	3.25	0.63	3.26	0.63	3.25	0.63	3.25	0.63	
	3.11	0.63	3.1	0.63	3.1	0.63	3.1	0.63	3.11	0.63	3.11	0.63	3.11	0.63	3.1	0.63	
	5.62	0.89	5.63	0.88	5.63	0.88	5.62	0.88	5.62	0.88	5.63	0.88	5.63	0.88	5.63	0.88	
ratna	3.14	0.86	3.15	0.9	3.15	0.88	3.17	0.87	3.17	0.89	3.16	0.89	3.14	0.87	3.15	0.87	
	3.24	0.63	3.27	0.63	3.24	0.64	3.26	0.63	3.26	0.63	3.26	0.64	3.26	0.63	3.25	0.65	
	3.15	0.63	3.17	0.63	3.17	0.63	3.17	0.63	3.17	0.64	3.17	0.65	3.17	0.64	3.17	0.63	
	5.66	0.87	5.64	0.89	5.61	0.88	5.63	0.88	5.62	0.89	5.63	0.88	5.61	0.88	5.63	0.88	

R alginat 18 gram, ditunda 30 menit																	
nama	1		2		3		4		5		6		7		8		
	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	
irna	3.11	0.88	3.16	0.88	3.11	0.88	3.16	0.9	3.12	0.85	3.16	0.89	3.16	0.89	3.15	0.88	
	3.25	0.63	3.26	0.64	3.23	0.64	3.26	0.63	3.23	0.62	3.25	0.64	3.25	0.64	3.26	0.62	
	3.11	0.63	3.15	0.64	3.11	0.62	3.14	0.64	3.13	0.63	3.14	0.64	3.16	0.63	3.14	0.64	
	5.63	0.89	5.61	0.88	5.63	0.88	5.61	0.89	5.62	0.88	5.63	0.89	5.62	0.9	5.63	0.89	
novi	3.1	0.88	3.1	0.88	3.1	0.88	3.15	0.89	3.1	0.88	3.11	0.88	3.1	0.89	3.11	0.89	
	3.25	0.63	3.24	0.63	3.24	0.63	3.25	0.63	3.25	0.63	3.26	0.63	3.24	0.63	3.26	0.62	
	3.1	0.63	3.1	0.64	3.1	0.62	3.16	0.63	3.11	0.62	3.12	0.63	3.1	0.62	3.1	0.63	
	5.63	0.88	5.63	0.89	5.63	0.88	5.62	0.89	5.62	0.89	5.62	0.89	5.62	0.89	5.62	0.88	
ratna	3.19	0.89	3.16	0.88	3.15	0.89	3.16	0.88	3.14	0.86	3.18	0.89	3.17	0.88	3.17	0.88	
	3.25	0.63	3.26	0.63	3.27	0.63	3.25	0.62	3.24	0.62	3.26	0.63	3.24	0.63	3.25	0.63	
	3.16	0.63	3.15	0.63	3.15	0.63	3.15	0.63	3.14	0.62	3.18	0.63	3.15	0.62	3.16	0.63	
	5.63	0.89	5.62	0.89	5.62	0.88	5.62	0.87	5.64	0.85	5.63	0.89	5.62	0.88	5.63	0.88	

b. Tabel hasil pengukuran jarak dan diameter silinder pada model studi hasil

cetakan alginat campuran pati jagung 2:1

H alginat 12 gram + pati jagung 6 gram, tanpa ditunda																
nama	1		2		3		4		5		6		7		8	
	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter
irna	3.13	0.88	3.15	0.89	3.13	0.89	3.17	0.88	3.17	0.89	3.17	0.9	3.12	0.89	3.16	0.89
	3.25	0.64	3.27	0.63	3.27	0.63	3.25	0.63	3.26	0.63	3.25	0.63	3.25	0.635	3.25	0.63
	3.13	0.64	3.17	0.63	3.13	0.64	3.16	0.63	3.15	0.63	3.14	0.63	3.12	0.63	3.16	0.63
novi	5.65	0.88	5.64	0.88	5.64	0.89	5.63	0.88	5.62	0.88	5.62	0.9	5.63	0.875	5.62	0.88
	3.12	0.89	3.14	0.88	3.15	0.9	3.13	0.86	3.13	0.89	3.13	0.89	3.1	0.89	3.11	0.89
	3.24	0.63	3.25	0.64	3.26	0.63	3.25	0.63	3.26	0.63	3.26	0.63	3.25	0.63	3.25	0.62
ratna	3.17	0.63	3.15	0.62	3.15	0.65	3.2	0.63	3.1	0.63	3.1	0.62	3.11	0.62	3.1	0.62
	5.66	0.88	5.64	0.87	5.64	0.9	5.64	0.87	5.62	0.88	5.63	0.89	5.63	0.87	5.63	0.88
	3.17	0.89	3.15	0.89	3.14	0.9	3.2	0.86	3.16	0.89	3.16	0.9	3.17	0.89	3.15	0.88
	3.2	0.65	3.2	0.64	3.25	0.64	3.25	0.63	3.26	0.64	3.26	0.63	3.28	0.63	3.25	0.62
	3.26	0.65	3.18	0.63	3.18	0.64	3.16	0.62	3.16	0.64	3.14	0.64	3.14	0.63	3.17	0.63
	5.62	0.9	5.63	0.89	5.63	0.9	5.6	0.89	5.61	0.89	5.63	0.89	5.64	0.89	5.62	0.88

E alginat 12 gram + pati jagung 6 gram, ditunda 10 menit																
nama	1		2		3		4		5		6		7		8	
	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter
irna	3.14	0.89	3.15	0.88	3.15	0.88	3.15	0.86	3.17	0.9	3.17	0.89	3.14	0.9	3.15	0.89
	3.25	0.63	3.3	0.63	3.25	0.64	3.26	0.64	3.25	0.64	3.26	0.63	3.25	0.64	3.25	0.63
	3.14	0.63	3.16	0.64	3.14	0.63	3.14	0.63	3.15	0.63	3.14	0.63	3.16	0.63	3.16	0.63
novi	5.62	0.89	5.66	0.9	5.63	0.89	5.63	0.88	5.63	0.89	5.61	0.89	5.62	0.89	5.63	0.89
	3.14	0.88	3.19	0.89	3.17	0.89	3.14	0.87	3.13	0.89	3.12	0.89	3.11	0.9	3.1	0.89
	3.25	0.63	3.24	0.63	3.25	0.63	3.25	0.63	3.25	0.63	3.27	0.62	3.26	0.63	3.26	0.62
ratna	3.13	0.62	3.19	0.63	3.17	0.63	3.16	0.63	3.13	0.63	3.13	0.63	3.13	0.63	3.1	0.63
	5.62	0.88	5.65	0.89	5.62	0.89	5.63	0.88	5.62	0.89	5.62	0.88	5.62	0.89	5.62	0.88
	3.16	0.89	3.15	0.9	3.16	0.9	3.17	0.86	3.14	0.9	3.14	0.89	3.16	0.9	3.16	0.89
	3.26	0.63	3.27	0.64	3.27	0.64	3.27	0.63	3.26	0.64	3.27	0.63	3.26	0.64	3.26	0.63
	3.15	0.64	3.18	0.66	3.14	0.65	3.15	0.64	3.18	0.63	3.14	0.63	3.18	0.63	3.14	0.64
	5.64	0.89	5.68	0.91	5.62	0.9	5.64	0.89	5.63	0.89	5.62	0.89	5.64	0.89	5.62	0.87

F alginat 12 gram + pati jagung 6 gram, ditunda 20 menit																
nama	1		2		3		4		5		6		7		8	
	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter
irna	3.16	0.88	3.16	0.88	3.18	0.88	3.12	0.88	3.16	0.89	3.15	0.89	3.16	0.89	3.16	0.89
	3.23	0.63	3.26	0.63	3.25	0.63	3.27	0.63	3.26	0.63	3.26	0.64	3.24	0.63	3.25	0.62
	3.14	0.63	3.15	0.63	3.16	0.62	3.13	0.63	3.16	0.63	3.15	0.63	3.16	0.64	3.16	0.62
novi	5.63	0.88	5.62	0.88	5.63	0.88	5.62	0.88	5.61	0.88	5.62	0.88	5.62	0.87	5.62	0.88
	3.1	0.87	3.16	0.89	3.13	0.89	3.15	0.88	3.1	0.89	3.11	0.89	3.11	0.9	3.13	0.89
	3.24	0.61	3.25	0.62	3.25	0.63	3.25	0.62	3.26	0.63	3.26	0.63	3.26	0.63	3.26	0.63
ratna	3.12	0.62	3.13	0.62	3.2	0.63	3.14	0.63	3.11	0.63	3.1	0.63	3.13	0.63	3.11	0.63
	5.65	0.87	5.63	0.88	5.63	0.88	5.62	0.88	5.62	0.88	5.62	0.88	5.62	0.89	5.62	0.88
	3.18	0.88	3.13	0.89	3.16	0.91	3.14	0.89	3.16	0.88	3.15	0.88	3.15	0.89	3.15	0.88
	3.26	0.62	3.27	0.63	3.27	0.62	3.27	0.63	3.25	0.63	3.26	0.63	3.24	0.62	3.26	0.64
	3.19	0.64	3.15	0.63	3.16	0.63	3.16	0.63	3.18	0.63	3.17	0.63	3.17	0.62	3.15	0.63
	5.63	0.88	5.64	0.89	5.65	0.9	5.65	0.87	5.62	0.88	5.63	0.88	5.62	0.89	5.62	0.89

G alginat 12 gram + pati jagung 6 gram, ditunda 30 menit																
nama	1		2		3		4		5		6		7		8	
	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter
irna	3.14	0.89	3.11	0.9	3.14	0.88	3.13	0.89	3.16	0.89	3.13	0.88	3.16	0.89	3.16	0.89
	3.26	0.62	3.26	0.63	3.26	0.64	3.26	0.64	3.25	0.64	3.25	0.63	3.25	0.63	3.26	0.65
	3.14	0.62	3.15	0.63	3.16	0.64	3.13	0.62	3.15	0.64	3.15	0.63	3.16	0.63	3.14	0.63
novi	5.66	0.89	5.62	0.9	5.63	0.87	5.62	0.88	5.61	0.88	5.62	0.88	5.63	0.88	5.63	0.89
	3.18	0.9	3.19	0.9	3.14	0.89	3.13	0.89	3.1	0.89	3.13	0.89	3.12	0.89	3.11	0.89
	3.27	0.64	3.26	0.62	3.25	0.63	3.26	0.63	3.25	0.63	3.26	0.62	3.26	0.63	3.25	0.63
ratna	3.13	0.63	3.13	0.63	3.15	0.62	3.13	0.63	3.13	0.63	3.11	0.63	3.1	0.63	3.11	0.63
	5.64	0.69	5.63	0.89	5.63	0.88	5.63	0.89	5.62	0.88	5.62	0.87	5.62	0.89	5.62	0.88
	3.12	0.91	3.17	0.9	3.13	0.89	3.13	0.9	3.15	0.89	3.15	0.88	3.15	0.89	3.15	0.88
	3.26	0.64	3.26	0.62	3.26	0.63	3.27	0.64	3.26	0.65	3.26	0.63	3.26	0.63	3.27	0.65
	3.12	0.64	3.14	0.64	3.14	0.64	3.18	0.63	3.15	0.64	3.17	0.64	3.17	0.63	3.16	0.64
	5.66	0.9	5.64	0.91	5.63	0.89	5.63	0.9	5.63	0.88	5.63	0.89	5.63	0.89	5.62	0.89

c. Tabel hasil pengukuran jarak dan diameter silinder pada model studi hasil cetakan alginat campuran pati jagung 1:1

B alginat 9 gram + pati jagung 9 gram ditunda 20 menit																
nama	1		2		3		4		5		6		7		8	
	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter
irna	3.18	0.89	3.14	0.89	3.17	0.89	3.16	0.89	3.13	0.89	3.11	0.91	3.11	0.93	3.11	0.88
	3.22	0.62	3.24	0.63	3.25	0.62	3.25	0.63	3.22	0.61	3.23	0.61	3.23	0.61	3.25	0.63
	3.15	0.63	3.14	0.62	3.15	0.62	3.18	0.63	3.11	0.61	3.11	0.61	3.11	0.62	3.16	0.63
novi	5.62	0.89	5.64	0.89	5.63	0.88	5.62	0.88	5.61	0.9	5.61	0.92	5.61	0.91	5.61	0.88
	3.14	0.89	3.15	0.9	3.17	0.9	3.17	0.89	3.16	0.88	3.14	0.91	3.15	0.88	3.16	0.89
	3.25	0.62	3.27	0.63	3.25	0.63	3.26	0.63	3.26	0.63	3.25	0.61	3.25	0.65	3.25	0.63
	3.18	0.63	3.17	0.63	3.15	0.63	3.19	0.63	3.14	0.65	3.13	0.64	3.12	0.65	3.16	0.64
ratna	5.65	0.89	5.66	0.87	5.62	0.89	5.63	0.89	5.63	0.89	5.61	0.88	5.61	0.89	5.62	0.88
	3.18	0.89	3.16	0.91	3.18	0.93	3.14	0.89	3.17	0.91	3.18	0.92	3.16	0.88	3.14	0.89
	3.28	0.63	3.27	0.63	3.24	0.63	3.27	0.64	3.26	0.65	3.265	0.64	3.26	0.66	3.25	0.64
	3.18	0.65	3.15	0.62	3.16	0.63	3.17	0.63	3.17	0.65	3.17	0.62	3.15	0.64	3.16	0.64
	5.64	0.9	5.63	0.89	5.63	0.88	5.64	0.87	5.62	0.89	5.63	0.89	5.62	0.89	5.63	0.89

C alginat 9 gram + pati jagung 9 gram ditunda 30 menit																
nama	1		2		3		4		5		6		7		8	
	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter
irna	3.14	0.88	3.17	0.88	3.17	0.89	3.14	0.88	3.15	0.9	3.15	0.9	3.18	0.89	3.13	0.9
	3.24	0.63	3.19	0.62	3.24	0.63	3.23	0.63	3.22	0.61	3.28	0.64	3.22	0.63	3.22	0.62
	3.18	0.62	3.17	0.62	3.17	0.63	3.14	0.63	3.12	0.61	3.14	0.64	3.19	0.63	3.2	0.62
	5.58	0.88	5.57	0.88	5.6	0.89	5.65	0.88	5.62	0.9	5.62	0.92	5.61	0.92	5.61	0.9
novi	3.19	0.89	3.22	0.89	3.13	0.9	3.16	0.89	3.16	0.9	3.16	0.91	3.14	0.89	3.16	0.89
	3.25	0.63	3.21	0.62	3.25	0.63	3.25	0.63	3.24	0.62	3.26	0.64	3.25	0.63	3.24	0.63
	3.18	0.61	3.15	0.62	3.17	0.62	3.16	0.62	3.15	0.62	3.13	0.65	3.12	0.63	3.17	0.63
	5.61	0.9	5.6	0.89	5.65	0.89	5.65	0.89	5.62	0.88	5.63	0.89	5.62	0.89	5.61	0.88
ratna	3.16	0.9	3.17	0.89	3.15	0.9	3.18	0.93	3.17	0.91	3.16	0.9	3.16	0.9	3.16	0.89
	3.27	0.63	3.24	0.61	3.26	0.63	3.26	0.63	3.25	0.65	3.26	0.64	3.26	0.65	3.26	0.66
	3.17	0.62	3.16	0.61	3.15	0.63	3.18	0.63	3.17	0.65	3.15	0.62	3.16	0.63	3.14	0.64
	5.61	0.89	5.62	0.88	5.63	0.89	5.65	0.9	5.66	0.91	5.63	0.91	5.63	0.88	5.61	0.91

D alginat 9 gram + pati jagung 9 gram tanpa ditunda																
nama	1		2		3		4		5		6		7		8	
	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter
irna	3.16	0.92	3.17	0.9	3.18	0.91	3.2	0.9	3.14	0.9	3.11	0.9	3.13	0.91	3.21	0.9
	3.26	0.63	3.26	0.63	3.26	0.64	3.26	0.63	3.22	0.61	3.24	0.61	3.22	0.62	3.24	0.61
	3.2	0.63	3.18	0.63	3.18	0.63	3.16	0.63	3.14	0.62	3.11	0.62	3.12	0.61	3.22	0.61
	5.68	0.92	5.64	0.9	5.64	0.88	5.65	0.88	5.63	0.9	5.62	0.89	5.62	0.88	5.61	0.86
novi	3.16	0.9	3.17	0.91	3.19	0.9	3.2	0.9	3.16	0.9	3.14	0.89	3.14	0.88	3.16	0.89
	3.25	0.62	3.25	0.62	3.25	0.63	3.26	0.63	3.25	0.64	3.25	0.64	3.25	0.63	3.26	0.63
	3.18	0.62	3.2	0.62	3.17	0.63	3.15	0.63	3.16	0.63	3.15	0.64	3.15	0.63	3.17	0.63
	5.67	0.9	5.64	0.9	5.65	0.9	5.66	0.89	5.63	0.9	5.63	0.92	5.63	0.89	5.63	0.88
ratna	3.19	0.92	3.16	0.9	3.16	0.91	3.17	0.91	3.17	0.91	3.16	0.9	3.17	0.9	3.15	0.9
	3.25	0.63	3.25	0.63	3.27	0.64	3.27	0.64	3.27	0.66	3.26	0.63	3.27	0.63	3.26	0.62
	3.18	0.63	3.18	0.63	3.16	0.63	3.19	0.64	3.16	0.64	3.14	0.64	3.16	0.63	3.15	0.63
	5.66	0.92	5.64	0.91	5.65	0.9	5.66	0.89	5.64	0.9	5.65	0.88	5.63	0.88	5.62	0.88

A alginat 9 gram + pati jagung 9 gram ditunda 10 menit																
nama	1		2		3		4		5		6		7		8	
	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter	jarak	diameter
irna	3.15	0.89	3.18	0.9	3.16	0.89	3.15	0.88	3.11	0.91	3.18	0.86	3.14	0.86	3.11	0.9
	3.24	0.63	3.27	0.63	3.26	0.63	3.23	0.62	3.22	0.61	3.23	0.61	3.22	0.61	3.23	0.62
	3.16	0.64	3.18	0.63	3.17	0.62	3.13	0.61	3.11	0.61	3.2	0.61	3.11	0.62	3.11	0.62
	5.64	0.9	5.65	0.89	5.63	0.89	5.63	0.89	5.61	0.9	5.62	0.9	5.61	0.9	5.61	0.87
novi	3.2	0.94	3.14	0.88	3.13	0.88	3.18	0.9	3.15	0.9	3.14	0.88	3.14	0.86	3.15	0.91
	3.27	0.63	3.27	0.63	3.28	0.63	3.23	0.63	3.22	0.645	3.24	0.62	3.24	0.64	3.24	0.63
	3.25	0.63	3.17	0.62	3.13	0.62	3.19	0.63	3.11	0.6	3.13	0.63	3.12	0.64	3.13	0.62
	5.66	0.93	5.66	0.88	5.63	0.88	5.62	0.89	5.62	0.85	5.63	0.88	5.63	0.9	5.62	0.87
ratna	3.22	0.93	3.13	0.89	3.18	0.87	3.15	0.94	3.17	0.91	3.13	0.9	3.16	0.89	3.16	0.89
	3.27	0.64	3.27	0.63	3.27	0.63	3.26	0.63	3.26	0.64	3.25	0.64	3.26	0.65	3.26	0.63
	3.27	0.63	3.14	0.63	3.18	0.63	3.17	0.63	3.17	0.62	3.17	0.64	3.17	0.64	3.17	0.65
	5.67	0.93	5.66	0.9	5.64	0.89	5.63	0.9	5.61	0.91	5.62	0.89	5.62	0.9	5.63	0.89

Lampiran 5

Surat determinasi jagung



DINAS KESEHATAN PROPINSI JAWA TIMUR
UPT MATERIA MEDICA

Jalan Lahor No.87 Telp. (0341) 593396 Batu (65313)

KOTA BATU

Nomor : 074/281/101.8/2015
 Sifat : Biasa
 Perihal : **Determinasi Tanaman Jagung**

Memenuhi permohonan saudara :

Nama : IRNA KURNIA RAMADANI
 NIM : 115070401111016
 Fakultas : FAKULTAS KEDOKTERAN
 UNIVERSITAS BRAWIJAYA MALANG

1. Perihal determinasi tanaman jagung

Kingdom : Plantae
 Sub Kingdom : Tracheobionta (Tumbuhan berpembuluh)
 Super Divisi : Spermatophyta
 Divisi : Magnoliophyta
 Sub divisi : Angiospermae
 Kelas : Monocotyledonae
 Bangsa : Poales
 Suku : Graminae
 Marga : *Zea*
 Jenis : *Zea mays*
 Nama Daerah : Eyako (Enggano); jagong (Aceh); jagong (Batak); rigi (Nias); jagong (Sunda); jagung (Jawa Tengah); jhahung (Madura); jagung (Bali); jagung (Susak); jago (Bima); waturu (Sumba); bima (Gorontalo); bide (Buol); gandung (Toraja); latung (Flores); fata (Solor); pena (Timor); jagong (Ambon); kastela (Halmahera); telo (Tidore).

Kunci determinasi : 1b-2b-3b-4a-5a-1b-2b-3a.

2. Deskripsi : **Habitus:** Berumpun, tegak, tinggi ≈ 1,5 m. **Batang:** Bulat, masif, tidak bercabang, pangkal batang berakar, kuning atau jingga. **Dau:** Tunggal, berpelelah, bulat panjang, ujung runcing, tepi rata, panjang 35-100 cm, lebar 3-12 cm, hijau. **Bunga:** Majemuk, berumah satu, bunga jantan dan betina bentuk bulir, di ujung batang dan di ketiak daun, benang sari ungu, bakal buah bulat telur, putih. **Buah:** Bentuk tongkol, panjang 8-20 cm, hijau kekuningan. **Biji:** Bulat, kuning atau putih. **Akar:** Serabut, putih kotor.

3. Nama Simplisia : *Maidis Stigmata*/ Rambut Jagung, *Maidis Amylum*/ Tepung Biji Jagung.

4. Kandungan Kimia : Rambut jagung mengandung saponin, zat saponin, flavonoid, minyak atsiri, minyak lemak, alantoin, dan zat pahit. Bunga mengandung stigmasterol. Biji *Zea mays* mengandung alkaloida, saponin, flavonoida dan polifenol.

5. Penggunaan : Penelitian

6. Daftar Pustaka

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- Syamsuhidayat, Sri Sugati dan Hutapea, Johny Ria. 1991. *Inventaris Tanaman Obat Indonesia 1*. Departemen Kesehatan Republik Indonesia: Badan Penelitian dan Pengembangan Kesehatan.
- Van Steenis. CGGJ. 2008. *FLORA*. Pradnya Paramita, Jakarta.

Demikian surat keterangan determinasi ini kami buat untuk dipergunakan sebagaimana mestinya.

Batu, 20 Mei 2015
 Kepala UPT Materia Medica Batu

Dr. Husin RM, Apt. M.Kes.
 NIP. 196111021991031003

Lampiran 6

Foto penelitian

a. Pembuatan tepung jagung



Siapkan jagung



Pemipilan jagung



Biji jagung diblender

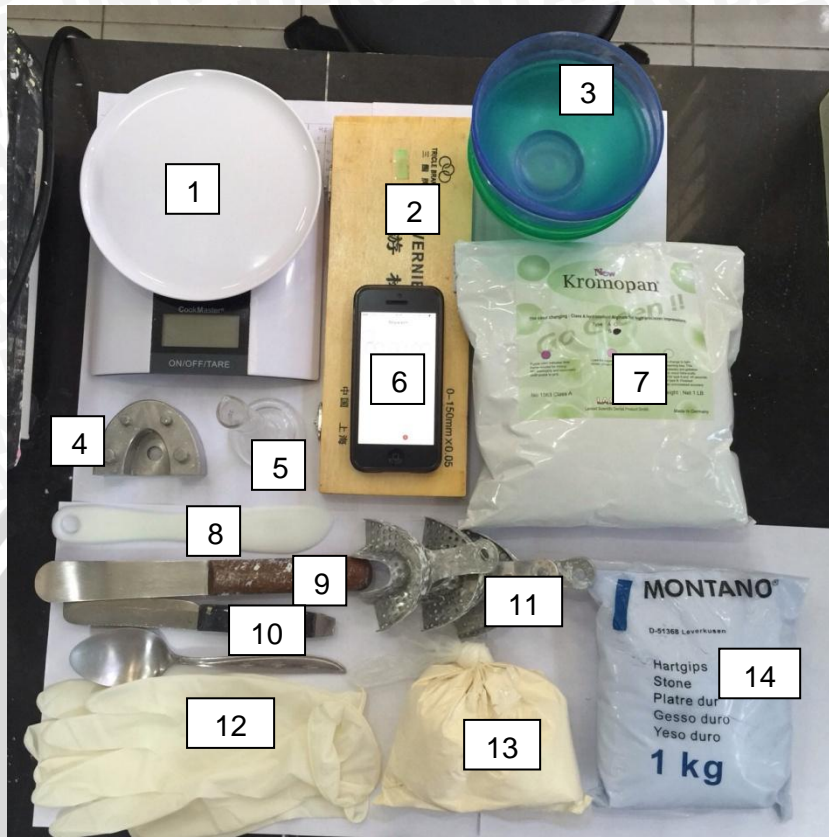


Penjemuran langsung dengan sinar matahari



Penghalusan dan pengayakan tepung

b. Alat dan bahan



Keterangan gambar:

- | | |
|----------------------|--------------------------|
| 1. Timbangan digital | 8. Spatula alginat |
| 2. Kaliper | 9. Spatula gips |
| 3. Bowl | 10. Pisau gips |
| 4. Master model | 11. Sendok cetak RB no.1 |
| 5. Gelas ukur | 12. Handscoon |
| 6. Stopwatch | 13. Tepung jagung |
| 7. Alginat kromopan | 14. Gipstipe III |

c. Master model

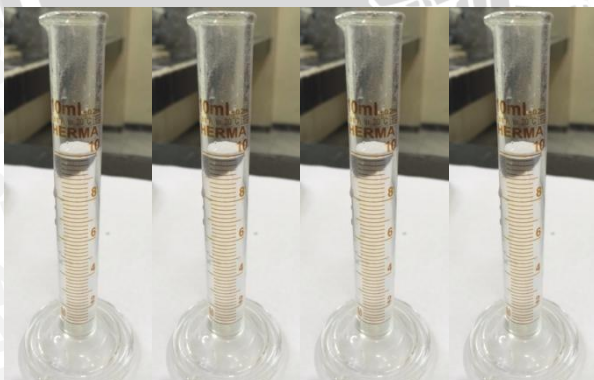




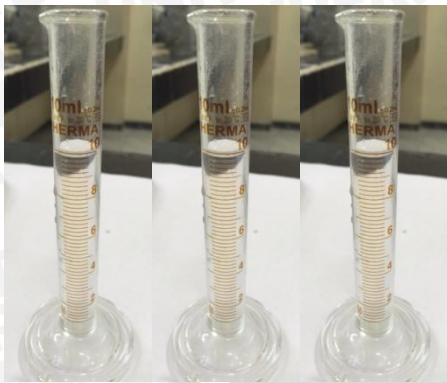
d. Pembuatan model studi



Penimbangan alginat 18 dan 12 gram, pati jagung 6 gram, dan gips 100 gram



Takaran air untuk alginat dan alginat campuran pati jagung sebanyak 40 ml



Takaran air untuk gips sebanyak 30 ml



Pengadukan bahan cetak



Pencetakan pada master model



Hasil cetakan master model



Pengadukan gips diatas vibrator



Pengisian gips setelah penundaan waktu 10, 20, 30 menit dan tanpa penundaan waktu



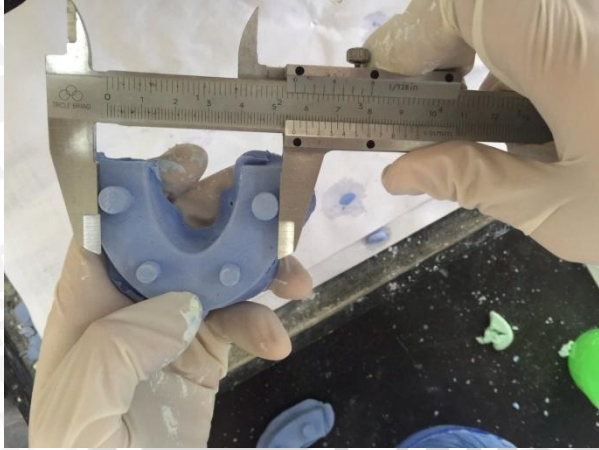
Pengisian gips



Gips yang telah setting



Pengukuran diameter silinder menggunakan kaliper



Pengukuran jarak silinder menggunakan kaliper

