


LAMPIRAN

Lampiran 1. Sertifikat Kitosan

BALAI PENELITIAN DAN KONSULTASI INDUSTRI
LABORATORIUM
PENELITIAN DAN KONSULTASI INDUSTRI
SURABAYA – JAWA TIMUR

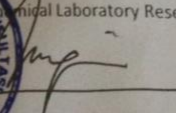



REPORT
Certificate of Analysis

No : 07049/KI/X-2017
Code : Penelitian
Sample Sender : Pns.FKG
Sample Name : Sitosan C Rejungan
Test : Kadar sitosan-Der.Asetilasi
Sample Brand :
Sample Identity : Padatan serbuk kekuningan
Sample Accepted : 1 Okt.2017

Chemical laboratory test result is :

1.Sitosan , % : 86,71
2.Derajat asetilasi: 95,64

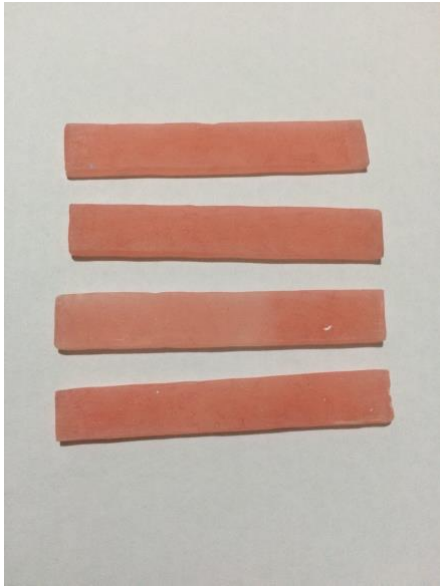
Surabaya 2 Okt.2017
Head of Chemical Laboratory Researcher

Drs M. Fatoni, M.S.



Laboratory Office Jl. Ketintang Baru XVII no 14
Telp 08155151337, Bank BCA – Bank Jatim
Surabaya

Lampiran 2. Dokumentasi dan Foto Penelitian

Resin akrilik



Uji Tarik menggunakan UTM



Lampiran 3. Hasil Data Pengujian Tarik



LABORATORIUM BAHAN TEKNIK
DEPARTEMEN TEKNIK MESIN SEKOLAH VOKASI
UNIVERSITAS GADJAH MADA

HASIL PENGUJIAN TARIK
No. 221 / P.Trk / BT.DTM / 2017

Spesimen Komposit Acrylic Resin + kitan

No.	Kode	Teg. Max (σ_u) (MPa)	Regangan (ϵ) (%)
1	0%	1	37.16
2		2	31.10
3		3	40.38
4		4	33.74
5	0.13%	1	30.64
6		2	26.72
7		3	5.50
8		4	26.04
9	0.26%	1	42.54
10		2	29.41
11		3	38.00
12		4	18.60
13	0.40%	1	41.13
14		2	47.13
15		3	46.98
16		4	26.32

Lembar asli, tidak untuk digandakan

Keterangan :

1. Pengujian dilakukan pada tanggal 08 Desember 2016



Puji Priyana, SST.
NIP. 196704101999031002

Lampiran 4. Hasil Analisis Data dengan SPSS

Analisis Deskriptif

Descriptives

			Statistic	Std. Error
Tegangan	Mean		32.5869	2.71184
	95% Confidence Interval for Mean	Lower Bound	26.8067	
		Upper Bound	38.3670	
	5% Trimmed Mean		33.2838	
	Median		32.4200	
	Variance		117.665	
	Std. Deviation		10.84734	
	Minimum		5.50	
	Maximum		47.13	
	Range		41.63	
	Interquartile Range		14.52	
	Skewness		-.895	.564
	Kurtosis		1.250	1.091
	Regangan	Mean		1.9687
95% Confidence Interval for Mean		Lower Bound	1.6085	
		Upper Bound	2.3290	
5% Trimmed Mean			1.9542	
Median			1.9500	
Variance			.457	
Std. Deviation			.67599	
Minimum			1.00	
Maximum			3.20	
Range			2.20	
Interquartile Range			1.28	
Skewness			.154	.564
Kurtosis			-.869	1.091
Hasil (Tegangan/Regangan)		Mean		17.15494
	95% Confidence Interval for Mean	Lower Bound	14.31940	
		Upper Bound	19.99048	
	5% Trimmed Mean		17.43276	
	Median		17.97000	
	Variance		28.317	
	Std. Deviation		5.321336	
	Minimum		4.583	
	Maximum		24.726	
	Range		20.143	
	Interquartile Range		8.107	
	Skewness		-.711	.564
	Kurtosis		.686	1.091

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Tegangan	.148	16	.200*	.939	16	.332
Regangan	.122	16	.200*	.954	16	.561
Hasil (Tegangan/Regangan)	.178	16	.190	.934	16	.284

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

a. Lilliefors Significance Correction

Oneway

Test of Homogeneity of Variances

	Levene Statistic	df 1	df 2	Sig.
Tegangan	1.019	3	12	.418
Regangan	.757	3	12	.539
Hasil (Tegangan/Regangan)	1.676	3	12	.225

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Tegangan	Between Groups	710.032	3	236.677	2.692	.093
	Within Groups	1054.941	12	87.912		
	Total	1764.973	15			
Regangan	Between Groups	3.977	3	1.326	5.528	.013
	Within Groups	2.878	12	.240		
	Total	6.854	15			
Hasil (Tegangan/Regangan)	Between Groups	134.410	3	44.803	1.852	.192
	Within Groups	290.339	12	24.195		
	Total	424.749	15			

Post Hoc Tests

Multiple Comparisons

LSD

Dependent Variable	(I) Konsentrasi	(J) Konsentrasi	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Tegangan	0 %	0.13 %	13.37000	6.62992	.067	-1.0754	27.8154
		0.26 %	3.45750	6.62992	.612	-10.9879	17.9029
		0.40 %	-4.79500	6.62992	.483	-19.2404	9.6504
	0.13 %	0 %	-13.37000	6.62992	.067	-27.8154	1.0754
		0.26 %	-9.91250	6.62992	.161	-24.3579	4.5329
		0.40 %	-18.16500*	6.62992	.018	-32.6104	-3.7196
	0.26 %	0 %	-3.45750	6.62992	.612	-17.9029	10.9879
		0.13 %	9.91250	6.62992	.161	-4.5329	24.3579
		0.40 %	-8.25250	6.62992	.237	-22.6979	6.1929
	0.40 %	0 %	4.79500	6.62992	.483	-9.6504	19.2404
		0.13 %	18.16500*	6.62992	.018	3.7196	32.6104
		0.26 %	8.25250	6.62992	.237	-6.1929	22.6979
Regangan	0 %	0.13 %	1.35000*	.34626	.002	.5956	2.1044
		0.26 %	1.02500*	.34626	.012	.2706	1.7794
		0.40 %	.75000	.34626	.051	-.0044	1.5044
	0.13 %	0 %	-1.35000*	.34626	.002	-2.1044	-.5956
		0.26 %	-.32500	.34626	.366	-1.0794	.4294
		0.40 %	-.60000	.34626	.109	-1.3544	.1544
	0.26 %	0 %	-1.02500*	.34626	.012	-1.7794	-.2706
		0.13 %	.32500	.34626	.366	-.4294	1.0794
		0.40 %	-.27500	.34626	.443	-1.0294	.4794
	0.40 %	0 %	-.75000	.34626	.051	-1.5044	.0044
		0.13 %	.60000	.34626	.109	-.1544	1.3544
		0.26 %	.27500	.34626	.443	-.4794	1.0294
Hasil (Tegangan/Regangan)	0 %	0.13 %	-2.492500	3.478143	.487	-10.07072	5.08572
		0.26 %	-5.307000	3.478143	.153	-12.88522	2.27122
		0.40 %	-7.699250*	3.478143	.047	-15.27747	-.12103
	0.13 %	0 %	2.492500	3.478143	.487	-5.08572	10.07072
		0.26 %	-2.814500	3.478143	.434	-10.39272	4.76372
		0.40 %	-5.206750	3.478143	.160	-12.78497	2.37147
	0.26 %	0 %	5.307000	3.478143	.153	-2.27122	12.88522
		0.13 %	2.814500	3.478143	.434	-4.76372	10.39272
		0.40 %	-2.392250	3.478143	.505	-9.97047	5.18597
	0.40 %	0 %	7.699250*	3.478143	.047	.12103	15.27747
		0.13 %	5.206750	3.478143	.160	-2.37147	12.78497
		0.26 %	2.392250	3.478143	.505	-5.18597	9.97047

*. The mean difference is significant at the .05 level.

Lampiran 5. Uji Etik



UMY UNIVERSITAS
MUHAMMADIYAH
YOGYAKARTA
Lingguh & Islami

**FAKULTAS
KEDOKTERAN DAN
ILMU KESEHATAN**

Nomor : 052/EP-FKIK-UMY/I/2018

KETERANGAN LOLOS Uji ETIK **ETHICAL APPROVAL**

Komite Etik Penelitian Fakultas Kedokteran dan Ilmu Kesehatan Universitas Muhammadiyah Yogyakarta dalam upaya melindungi hak asasi dan kesejahteraan responden/subyek penelitian, telah mengkaji dengan teliti protokol berjudul :

The Ethics Committee of the Faculty of Medicine and Health Sciences, University of Muhammadiyah Yogyakarta, with regards of the protection of human rights and welfare in research, has carefully reviewed the research protocol entitled :

"Pengaruh Konsentrasi Kitosan Dalam Resin Akrilik Terhadap Modulus Elastisitas"

Peneliti Utama : Indah Wulandari

Principal Investigator

Nama Institusi : Program Studi Kedokteran Gigi FKIK UMY
Name of the Institution

Negara : Indonesia
Country

Dan telah menyetujui protokol tersebut diatas.
And approved the above-mentioned protocol.

Yogyakarta, 03 Februari 2018

Ketua
Chairman

* Dr. H. Husek Hidayati, M.Kes.,
FISPH, FISGM

***Peneliti Berkewajiban :**

1. Menjaga kerahasiaan identitas subyek penelitian
2. Memberitahukan status penelitian apabila :
 - a. Setelah masa berlakunya keterangan lolos uji etik, penelitian masih belum selesai, dalam hal ini *ethical clearance* harus diperpanjang
 - b. Penelitian berhenti di tengah jalan
3. Melaporkan kejadian serius yang tidak diinginkan (*serious adverse events*)
4. Peneliti tidak boleh melakukan tindakan apapun pada responden/subyek sebelum penelitian lolos uji etik

ADDRESS

Kampus Terpadu UMY Gd. Siti Walidah LT.3
Jl. Brawijaya (Lingkar Selatan)
Tamantirto - Kasihan - Bantul
D.I.Yogyakarta 55183

CONTACT

Phone : (0274) 387656 ext. 213
Fax : (0274) 387658
Email : fkik@umy.ac.id
www.fkik.umy.ac.id