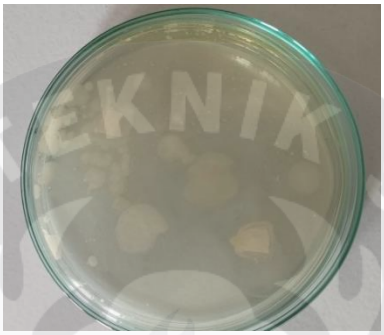
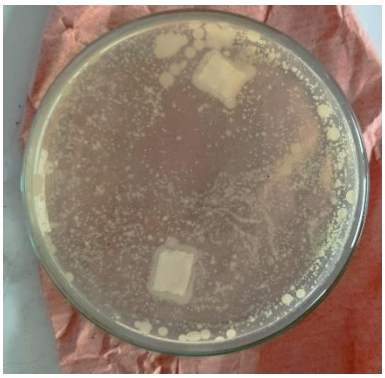
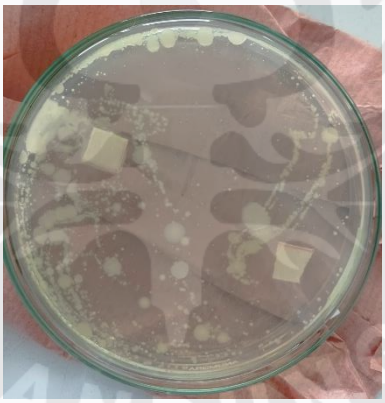
LAMPIRAN I

LAMPIRAN II

Data Hasil Pengujian

A. Data Pengujian Antibakteri

No.	Jenis Zat	Suhu (˚C)	Gambar	Diameter Zona Hambat (mm)	Daya Hambat
1	Blanko	-		0	Tidak Ada
2	LR	150		0	Tidak Ada
3		160		0	Tidak Ada

4		170		0	Tidak Ada
5	LRC	150		0	Tidak Ada
6		160		3	Rendah
7		170		7	Cukup

B. Data Pengujian Derajat Putih

		Blanko	LR			LRC		
			150˚C	160˚C	170˚C	150˚C	160˚C	170˚C
WI	x_1	89,78	52,96	49,58	47,27	55,81	41,33	17,06
	x_2	88,99	53,46	47,6	48,35	55,35	41,19	22,97
	x_3	88,85	54,41	51,15	46,89	55,02	45,23	26,01
	x_4	89,92	54,33	51,18	47,99	57,22	44,86	20,56
	x_5	78,8	54,15	51,2	47,91	58,24	45,23	25,94
	$\bar{x}$	**87,268**	**53,862**	**50,142**	**47,682**	**56,328**	**43,568**	**22,508**

C. Data Pengujian Kelangsaian

		Blanko	LR			LRC		
			150˚C	160˚C	170˚C	150˚C	160˚C	170˚C
Muka	1	68,78	63,98	64,58	62,27	65,81	66,1	67,06
	2	68,19	63,9	64,3	63,35	65,35	66,35	68,17
	3	68,85	63,41	62,15	62,29	65,02	67,02	67,01
	4	69,92	64,33	63,58	63,47	66,22	66,92	67,26
	5	67,8	64,15	62,75	63,11	65,24	67,24	67,14
	$\bar{x}$	**68,708**	**63,954**	**63,472**	**62,898**	**65,528**	**66,726**	**67,328**
Bela-kang	1	68,78	63,904	64,125	62,9	66,22	67,1	67,9
	2	68,19	61,16	64,9	62,15	65,05	66,35	67,12
	3	68,85	61,41	62,15	65,19	66,02	67,02	68,01
	4	69,92	64,33	62,58	63,016	66,22	65,92	67
	5	67,8	64,15	62,75	64,6	65,24	65,24	66,14
	$\bar{x}$	**68,708**	**62,9908**	**63,301**	**63,5712**	**65,75**	**66,326**	**67,234**

D. Data Pengujian Kekuatan Tarik

		Blank o	LR			LRC		
			150˚C	160˚C	170˚C	150˚C	160˚C	170˚C
Rata - rata	1	24,78	21,898	21,699	21,453	21,898	20,277	19,59
	2	20,27	20,367	23,129	21,652	18,629	21,605	21,699
	3	22,49	21,855	21,898	22,934	24,461	21,004	19,441

(Kgf)	**4**	23,38	20,715	20,863	16,867	22,293	21,758	21,305
	5	20,07	20,659	19,875	22,488	17,805	19,43	20,691
	$\bar{x}$	22,2	21,0988	21,4928	21,0788	21,0172	20,8148	20,5452
Standar Deviasi		**0,51**	2,024	0,722	1,214	2,430	2,751	0,969

LAMPIRAN III

Data Statistika Anova Dua Arah

A. Data Derajat Putih

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Standardized Residual for Whiteness_Index	,117	30	,200*	,954	30	,223

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

a. Lilliefors Significance Correction

Tests of Between-Subjects Effects

Dependent Variable: Whiteness Index

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	3728,223[a]	5	745,645	186,540	,000
Intercept	62604,440	1	62604,440	15661,897	,000
Suhu	2020,651	2	1010,325	252,755	,000
Zat	714,530	1	714,530	178,756	,000
Suhu * Zat	993,043	2	496,521	124,216	,000
Error	95,934	24	3,997		
Total	66428,597	30			
Corrected Total	3824,157	29			

a. R Squared = ,975 (Adjusted R Squared = ,970)

B. Data Kelangsaian Bagian Muka

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Standardized Residual for Kelangsaian	,071	30	,200*	,987	30	,969

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

a. Lilliefors Significance Correction

Tests of Between-Subjects Effects

Dependent Variable: Kelangsaian

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	82,616[a]	5	16,523	45,124	,000
Intercept	126688,907	1	126688,907	345980,703	,000
Suhu	,889	2	,445	1,214	,315
Zat	71,425	1	71,425	195,059	,000
Suhu * Zat	10,302	2	5,151	14,067	,000
Error	8,788	24	,366		
Total	126780,312	30			
Corrected Total	91,405	29			

a. R Squared = ,904 (Adjusted R Squared = ,884)

C. Data Kelangsaian Bagian Belakang

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Standardized Residual for Kelangsaian	,119	30	,200*	,962	30	,357

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

a. Lilliefors Significance Correction

Tests of Between-Subjects Effects

Dependent Variable: Kelangsaian

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	80,812[a]	5	16,162	14,022	,000
Intercept	126213,020	1	126213,020	109496,303	,000
Suhu	5,363	2	2,681	2,326	,119
Zat	74,372	1	74,372	64,521	,000
Suhu * Zat	1,078	2	,539	,468	,632
Error	27,664	24	1,153		
Total	126321,496	30			
Corrected Total	108,477	29			

a. R Squared = ,745 (Adjusted R Squared = ,692)

D. Data Kekuatan Tarik

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Standardized Residual for Kekuatan_Tarik	,137	30	,154	,953	30	,203

a. Lilliefors Significance Correction

Tests of Between-Subjects Effects

Dependent Variable: Kekuatan_Tarik

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	2,499[a]	5	,500	,172	,970
Intercept	13239,998	1	13239,998	4557,448	,000
Suhu	,622	2	,311	,107	,899
Zat	1,394	1	1,394	,480	,495
Suhu * Zat	,484	2	,242	,083	,920
Error	69,723	24	2,905		
Total	13312,221	30			
Corrected Total	72,223	29			

a. R Squared = ,035 (Adjusted R Squared = -,167)

LAMPIRAN IV

Data Pengujian Antibakteri Metoda *Disc Diffusion*

PEMERINTAH KOTA BANDUNG
DINAS PENDIDIKAN
SEKOLAH MENENGAH KEJURUAN NEGERI 7
(STM NEGERI KIMIA BANDUNG)
Paket Keahlian : Kimia Industri, Tekn. Penyempurnaan Tekstil, Analisis Kimia dan Farmasi
Jalan Soekarno-Hatta No. 596 Telp/Fax. 7563077 Bandung
e-mail : info@smkn7bandung.sch.id
web : www.smkn7bandung.sch.id

Pengujian laboratorium mikrobiologi

Hasil Pengujian Kain Secara Mikrobiologi

Judul : Uji Resistensi Bakteri Terhadap Kain

Tanggal percobaan : 11 – 12 Juni 2024

Tujuan : untuk mengetahui ketahanan (zona hambat) Kain terhadap mikroba

Alat:

- Cawan petri
- Pipet tetes
- Kertas Label
- Tabung Reaksi
- Gunting

Bahan :

- Plate Count Agar
- Aquades
- Bakteri E. Coli

Teori Dasar

Metode Difusi

Metode *disc diffusion* (tes Kirby dan Bauer) untuk menentukan aktivitas agen anti mikroba. Piringan yang berisi agen anti mikroba diletakkan pada media agar yang telah ditanami mikroorganisme yang akan berdifusi pada media agar tersebut. Area jernih mengindikasikan adanya hambatan pertumbuhan mikroorganisme oleh agen anti mikroba permukaan media agar. Piringan tersebut diganti menggunakan media uji.

Pour Plate

Suspensi bakteri diambil menggunakan pipet lalu dimasukkan dalam media agar, setelah padat diletakan sampel uji diatasnya.