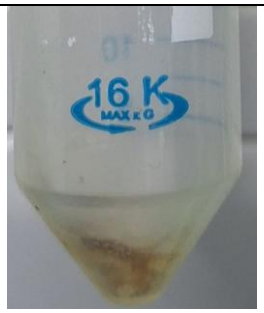
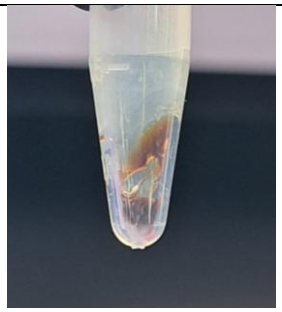
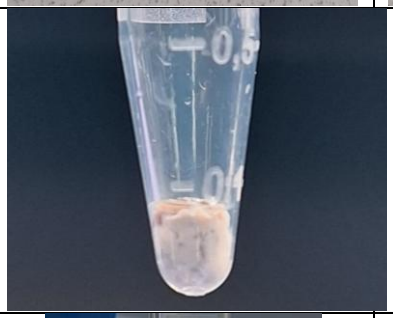
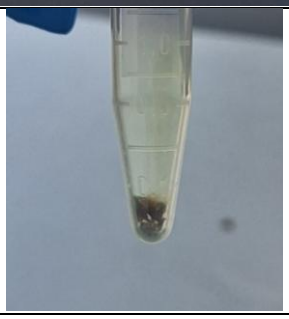
LAMPIRAN

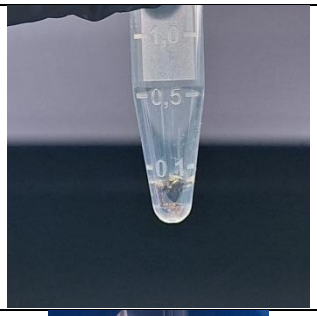
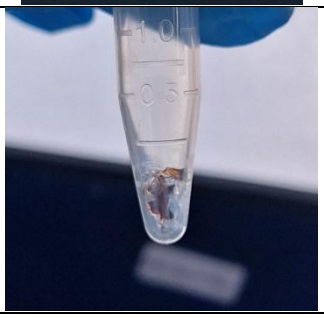
Lampiran 1. Sel setelah pengeringan

Bakteri	**Perlakuan**	
	Glukosa	**Glukosa + sodium laktat**
Burkholderia sp. B73		
Cupriavidus oxalaticus B71		
Bacillus thuringiensis B1165		

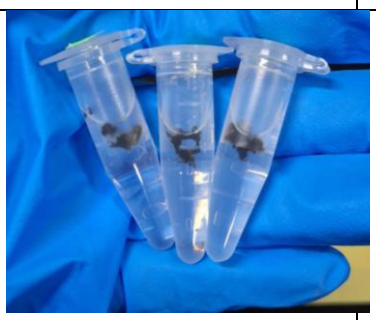
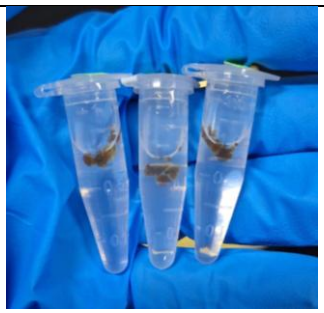
Lampiran 2. Sel setelah perlakuan SDS

Bakteri	**Perlakuan**	
	Glukosa	**Glukosa + sodium laktat**
Burkholderia sp. B73		
Cupriavidus oxalaticus B71		
Bacillus thuringiensis B1165		

Lampiran 3. Setelah pencucian dengan akuades dan etanol

Bakteri	**Perlakuan**	
	Glukosa	**Glukosa + sodium laktat**
Burkholderia sp. B73		
Cupriavidus oxalaticus B71		
Bacillus thuringiensis B1165		

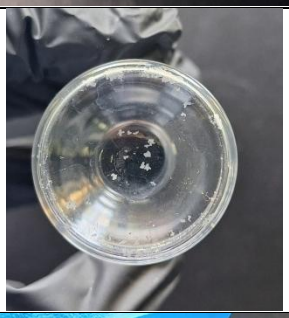
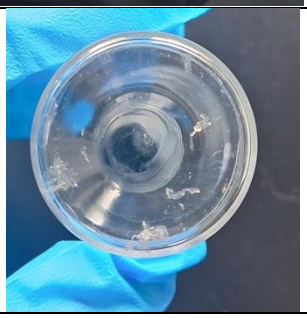
Lampiran 4. Ekstraksi PHA dengan kloroform

Bakteri	**Perlakuan**	
	Glukosa	**Glukosa + sodium laktat**
Burkholderia sp. B73		
Cupriavidus oxalaticus B71		
Bacillus thuringiensis B1165		

Lampiran 5. Pengendapan menggunakan metanol

Bakteri	**Perlakuan**	
	Glukosa	**Glukosa + sodium laktat**
Burkholderia sp. B73		
Cupriavidus oxalaticus B71		
Bacillus thuringiensis B1165		

Lampiran 6. PHA setelah penguapan

Bakteri	**Perlakuan**	
	Glukosa	**Glukosa + sodium laktat**
Burkholderia sp. B73		
Cupriavidus oxalaticus B71		
Bacillus thuringiensis B1165		

Lampiran 7. Data akumulasi PHA

No.	Isolat	Perlakuan	Volume fermentasi (mL)	DCW (g)	Ekstrak (g)	Ekstrak (g/L)	DCW (g/L)	Ekstrak PHA (%)
1.	B73	GSL 1	38	0,1568	0,1115	2,93	4,13	71,11
		GSL 2	38	0,1593	0,1278	3,36	4,19	80,23
		GSL 3	38	0,1577	0,1312	3,45	4,15	83,20
		G1	38	0,0515	0,0351	0,92	1,36	68,16
		G2	38	0,0564	0,0339	0,89	1,48	60,11
		G3	38	0,0571	0,0297	0,78	1,50	52,01
		rata-rata GSL		**0,1579**	**0,1235**	**3,25**	**4,16**	**78,18**
		rata-rata Glukosa		**0,0550**	**0,0329**	**0,87**	**1,45**	**60,09**
2.	B71	GSL 1	38	0,1345	0,0528	1,39	3,54	39,26
		GSL 2	38	0,1311	0,0512	1,35	3,45	39,05
		GSL 3	38	0,1335	0,0567	1,49	3,51	42,47
		G1	38	0,1115	0,0305	0,80	2,93	27,35
		G2	38	0,0195	0,0077	0,20	0,51	39,49
		G3	38	0,1440	0,0337	0,89	3,79	23,40
		rata-rata GSL		**0,1330**	**0,0536**	**1,41**	**3,50**	**40,26**
		rata-rata Glukosa		**0,0917**	**0,0240**	**0,63**	**2,41**	**30,08**
3.	B1165	GSL 1	38	0,0179	0,0103	0,27	0,47	57,54
		GSL 2	38	0,0224	0,0126	0,33	0,59	56,25
		GSL 3	38	0,0164	0,0109	0,29	0,43	66,46
		G1	38	0,0090	0,0048	0,13	0,24	53,33
		G2	38	0,0236	0,0111	0,29	0,62	47,03
		G3	38	0,0206	0,0127	0,33	0,54	61,65
		rata-rata GSL		**0,0189**	**0,0113**	**0,30**	**0,50**	**60,09**
		rata-rata Glukosa		**0,0177**	**0,0095**	**0,25**	**0,47**	**54,01**

Lampiran 8. Uji Normalitas faktor isolat terhadap hasil ekstrak PHA

Tests of Normality							
		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
Isolat		Statistic	df	Sig.	Statistic	df	Sig.
Ekstrak PHA	*Burkholderia* sp. B73	.159	6	.200*	.962	6	.837
	Cupriavidus oxalaticus B71	.357	6	.016	.811	6	.074
	Bacillus thuringiensis B1165	.137	6	.200*	.993	6	.995
	Kontrol	.	2	.			
*. This is a lower bound of the true significance.							
a. Lilliefors Significance Correction							

Lampiran 9. Uji Normalitas faktor perlakuan terhadap hasil ekstrak PHA

Tests of Normality							
		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
Perlakuan		Statistic	df	Sig.	Statistic	df	Sig.
Ekstrak PHA	Glukosa + sodium laktat	.175	9	.200*	.914	9	.346
	Glukosa	.157	9	.200*	.941	9	.592
	Kontrol	.	2	.			
*. This is a lower bound of the true significance.							
a. Lilliefors Significance Correction							

Lampiran 10. Uji Homogenitas terhadap hasil ekstrak PHA

Levene's Test of Equality of Error Variances[a,b]					
		Levene Statistic	df1	df2	Sig.
Ekstrak PHA	Based on Mean	1.443	6	13	.272
	Based on Median	.584	6	13	.737
	Based on Median and with adjusted df	.584	6	9.730	.736
	Based on trimmed mean	1.373	6	13	.296
Tests the null hypothesis that the error variance of the dependent variable is equal across groups.					
a. Dependent variable: ekstrak					
b. Design: Intercept + isolat + perlakuan + isolat * perlakuan					

Lampiran 11. Uji ANOVA terhadap hasil ekstrak PHA

Tests of Between-Subjects Effects					
Dependent Variable: Ekstrak PHA					
Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	9465.206[a]	6	1577.534	38.904	<.001
Intercept	26033.822	1	26033.822	642.020	<.001
Isolat	3556.852	2	1778.426	43.858	<.001
Perlakuan	589.847	1	589.847	14.546	.002
Isolat * perlakuan	111.743	2	55.871	1.378	.287
Error	527.148	13	40.550		
Total	56853.234	20			
Corrected Total	9992.354	19			
a. R Squared = .947 (Adjusted R Squared = .923)					

Lampiran 12. Uji Duncan faktor isolat terhadap hasil ekstrak PHA

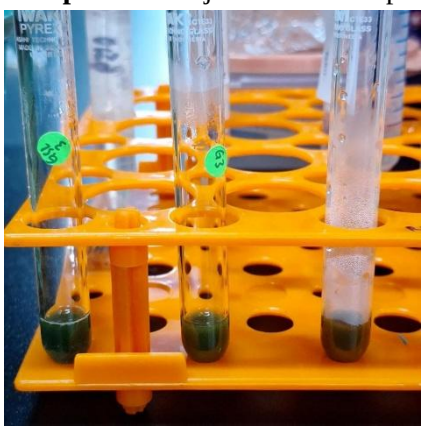
Ekstrak PHA						
			Subset			
Isolat		N	1	2	3	4
Duncan[a,b,c]	Kontrol	2	.0000			
	Cupriavidus oxalaticus B71	6		35.1700		
	Bacillus thuringiensis B1165	6			57.0433	
	Burkholderia sp. B73	6				69.1367
	Sig.		1.000	1.000	1.000	1.000
Means for groups in homogeneous subsets are displayed. Based on observed means. The error term is Mean Square(Error) = 40.550.						
a. Uses Harmonic Mean Sample Size = 4.000.						
b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.						
c. Alpha = .05.						

Lampiran 13. Uji Duncan faktor perlakuan terhadap hasil ekstrak PHA

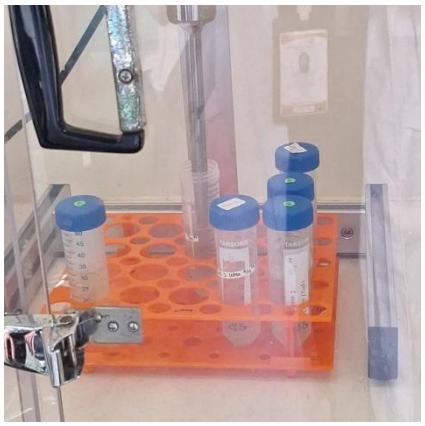
Ekstrak PHA					
			Subset		
	Perlakuan	N	1	2	3
Duncan[a,b,c]	Kontrol	2	.0000		
	Glukosa	9		48.0589	
	Glukosa + sodium laktat	9			59.5078
	Sig.		1.000	1.000	1.000
Means for groups in homogeneous subsets are displayed. Based on observed means. The error term is Mean Square(Error) = 40.550.					
a. Uses Harmonic Mean Sample Size = 4.154.					
b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.					
c. Alpha = .05.					

Lampiran 14. Inokulasi bakteri

Lampiran 15. Uji Benedict sampel fermentasi



Lampiran 16. Sonikasi sel menggunakan larutan SDS 1%



Lampiran 17. Analisis sampel PHA menggunakan alat Pyrolysis-GC/MS

Lampiran 18. Penyaringan *minimal salt medium* (MSM) menggunakan *Syringe filter*