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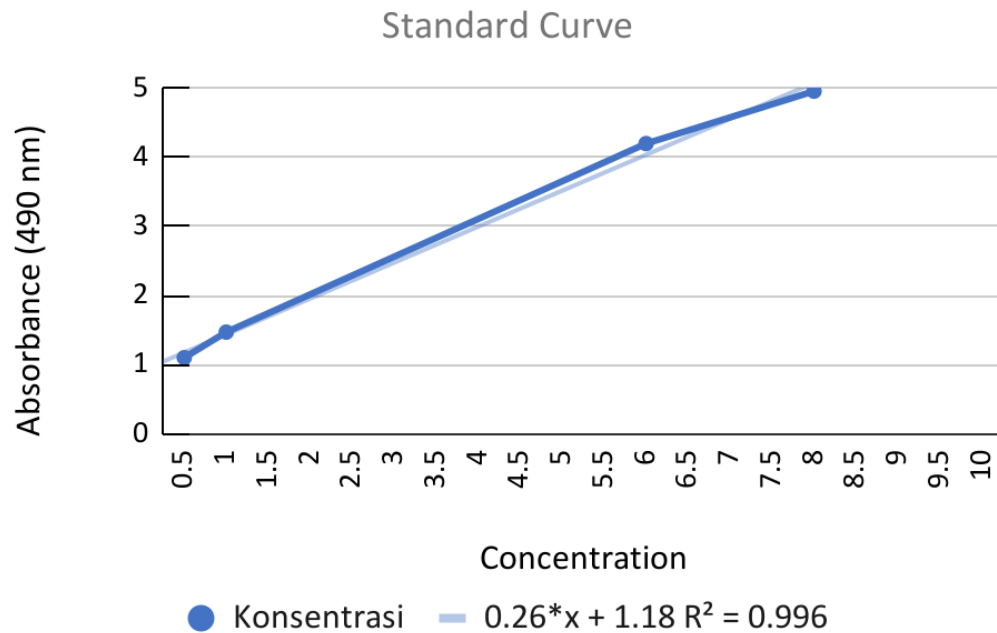
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## ATTACHMENT

Attachment 5. D-glucose standard curve



Attachment 6. Average absorbance of *Euglena* sp. culture at 680 nm for 9 days of observation.

Day	Average Absorbance (680 nm)		
	Control	MgCl <sub>2</sub>	CaCl <sub>2</sub>
0	0.011	0.017	0.014
1	0.028	0.020	0.022
2	0.037	0.036	0.031
3	0.053	0.047	0.038
4	0.074	0.085	0.073
5	0.084	0.140	0.136
6	0.101	0.184	0.166
7	0.115	0.205	0.177
8	0.083	0.220	0.208
9	0.080	0.184	0.228

Attachment 7. Total biomass data with ANOVA result.

**Descriptives**

Harvest\_Biomass

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Control	3	.002067	.0005132	.0002963	.000792	.003341	.0015	.0025
MgCl2	3	.006133	.0002517	.0001453	.005508	.006758	.0059	.0064
CaCl2	3	.012533	.0006028	.0003480	.011036	.014031	.0119	.0131
Total	9	.006911	.0045884	.0015295	.003384	.010438	.0015	.0131

**ANOVA**

Harvest\_Biomass

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.000	2	.000	363.150	<.001
Within Groups	.000	6	.000		
Total	.000	8			

**Harvest\_Biomass**

			Subset for alpha = 0.05		
	Salt	N	1	2	3
Duncan <sup>a</sup>	Control	3	.002067		
	MgCl2	3		.006133	
	CaCl2	3			.012533
	Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Attachment 8. Total Paramylon data with ANOVA result.

Descriptives									
		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean			
						Lower Bound	Upper Bound	Minimum	Maximum
Paramylon	Control	3	.001210	.0001622	.0000937	.000807	.001613	.0011	.0014
	MgCl2	3	.001995	.0003264	.0001884	.001184	.002806	.0017	.0024
	CaCl2	2	.005701	.0020791	.0014701	-.012979	.024381	.0042	.0072
	Total	8	.002627	.0020945	.0007405	.000876	.004378	.0011	.0072

ANOVA						
		Sum of Squares	df	Mean Square	F	Sig.
Paramylon	Between Groups	.016	2	.008	8.367	.037
	Within Groups	.004	4	.001		
	Total	.020	6			

## Paramylon

Duncan<sup>a,b</sup>

Salt	N	Subset for alpha = 0.05	
		1	2
Control	2	.12105	
MgCl2	3	.12603	
CaCl2	2		.22910
Sig.		.872	1.000

Means for groups in homogeneous subsets are displayed.

- Uses Harmonic Mean Sample Size = 2.250.
- The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

Attachment 9. HPLC test result



**DEPUTI BIDANG INFRASTRUKTUR RISET DAN INOVASI  
DIREKTORAT PENGELOLAAN LABORATORIUM,  
FASILITAS RISET, DAN KAWASAN SAINS TEKNOLOGI  
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**SERTIFIKAT HASIL UJI**

Nama Pelanggan : ID123044 Halaman : 1 dari 1  
Alamat Pelanggan : Tanggal Penerimaan: 26 Oktober 2023  
Jenis Bahan Uji : Mikroalga *Euglena* SP Tanggal Pengujian : 14 November 2023  
No. Penerimaan Sampel : 123044/Lab-Biotek/10/23 No. Sertifikat : 233-SHU-11-2023

No Urut	Kode Sampel Pelanggan	Bentuk	Parameter	Metode	Hasil	Satuan
1	Kontrol 1	Cair	Sukrosa	HPLC	<10	ppm
			Gukosa		<10	
			Fruktosa		<10	
			Arabinosa		<10	
2	Kontrol 2	Cair	Sukrosa	HPLC	<10	ppm
			Gukosa		<10	
			Fruktosa		<10	
			Arabinosa		<10	
3	Kontrol 3	Cair	Sukrosa	HPLC	<10	ppm
			Gukosa		<10	
			Fruktosa		<10	
			Arabinosa		<10	
4	CaCl 1	Cair	Sukrosa	HPLC	1203	ppm
			Gukosa		<10	
			Fruktosa		<10	
			Arabinosa		<10	
5	CaCl 2	Cair	Sukrosa	HPLC	6251	ppm
			Gukosa		<10	
			Fruktosa		<10	
			Arabinosa		<10	
6	MaCl 1	Cair	Sukrosa	HPLC	<10	ppm
			Gukosa		<10	
			Fruktosa		<10	
			Arabinosa		<10	
7	MaCl 2	Cair	Sukrosa	HPLC	<10	ppm
			Gukosa		<10	
			Fruktosa		<10	
			Arabinosa		<10	

Manajer Laboratorium Bioteknologi

 TT ELEKTRONIK

Rudiyono, ST

*Sertifikat ini mengacu pada kondisi sampel saat diterima dan hanya berhubungan dengan sampel yang diuji.*

*Sertifikat ini sah jika difotokopi atau digandakan seluruhnya.*

*Sertifikat ini tidak boleh disalin sebagian maupun seluruhnya tanpa seijin dari Direktorat Pengelolaan Laboratorium, Fasilitas Riset, dan Kawasan Sains dan Teknologi BRIN.*



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