

## Supplementary Material

# Poly(3-hydroxybutyrate) production from lignocellulosic wastes using *Bacillus megaterium* ATCC 14581

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**Table S1.** Analysis of variance for cellulose

Source	DF	Adj SS	Adj MS	F-Value	P-Value
Model	5	290.641	58.128	3.57	0.001
Linear	2	84.125	42.063	2.58	0.099
X <sub>1</sub>	1	15.680	15.680	0.96	0.338
X <sub>2</sub>	1	68.445	68.445	4.20	0.053
Square	2	206.508	103.254	6.34	0.007
X <sub>1</sub> X <sub>1</sub>	1	206.507	206.507	12.68	0.002
X <sub>2</sub> X <sub>2</sub>	1	0.002	0.002	0.00	0.992
2-Way Interaction	1	0.008	0.008	0.00	0.983
X <sub>1</sub> X <sub>2</sub>	1	0.008	0.008	0.00	0.983
Error	21	342.054	16.288		
Lack-of-Fit	3	52.566	17.522	1.09	0.379
Pure Error	18	289.489	16.083		
Total	26	632.695			

**Table S2.** Analysis of variance for hemicelluloses

Source	DF	Adj SS	Adj MS	F-Value	P-Value
Model	5	1176.92	235.385	69.42	<0.0001
Linear	2	1150.51	575.254	169.66	<0.0001
X <sub>1</sub>	1	990.42	990.422	292.11	<0.0001
X <sub>2</sub>	1	160.09	160.086	47.21	<0.0001
Square	2	17.78	8.890	2.62	0.096
X <sub>1</sub> X <sub>1</sub>	1	14.39	14.394	4.25	0.052
X <sub>2</sub> X <sub>2</sub>	1	3.39	3.385	1.00	0.329
2-Way Interaction	1	8.64	8.636	2.55	0.125
X <sub>1</sub> X <sub>2</sub>	1	8.64	8.636	2.55	0.125
Error	21	71.20	3.391		
Lack-of-Fit	3	42.66	14.221	8.97	0.001

Pure Error	18	28.54	1.586
Total	26	1248.13	

**Table S3.** Analysis of variance for lignin

Source	DF	Adj SS	Adj MS	F-Value	P-Value
Model	5	342.548	68.510	38.40	0.000
Linear	2	161.575	80.788	45.29	0.000
X <sub>1</sub>	1	159.907	159.907	89.64	0.000
X <sub>2</sub>	1	1.668	1.668	0.94	0.345
Square	2	138.032	69.016	38.69	0.000
X <sub>1</sub> X <sub>1</sub>	1	128.591	128.591	72.08	0.000
X <sub>2</sub> X <sub>2</sub>	1	9.442	9.442	5.29	0.032
2-Way Interaction	1	42.941	42.941	24.07	0.000
X <sub>1</sub> X <sub>2</sub>	1	42.941	42.941	24.07	0.000
Error	21	37.463	1.784		
Lack-of-Fit	3	18.581	6.194	5.90	0.005
Pure Error	18	18.882	1.049		
Total	26	380.011			