

Eden Research Laboratory

Update

To: Mega Fortris

Date: Jun 12, 2019

From: Thomas Poth

Number of pages including cover: 3

Regarding: D5511 Sample ERL#2121-2127 (78 days)

	Inculu m	Negati ve	Positi ve	#1 PP Bio White plasti c tabs	#2 GPPS (cap) Bio	#3 ABS + Bio Hard Plasti c	#4 PC + Bio Clear Plasti c
Cumulative Gas Volume (mL)	780.5	934.7	9091.1	2395.4	2144.0	2046.8	2787.2
Percent CH ₄ (%)	33.1	32.9	38.1	34.1	39.8	34.8	34.6
Volume CH ₄ (mL)	258.0	307.7	3463.0	816.4	852.8	712.9	963.1
Mass CH ₄ (g)	0.18	0.22	2.47	0.58	0.61	0.51	0.69
Percent CO ₂ (%)	44.9	41.9	43.0	42.8	42.3	42.8	42.9
Volume CO ₂ (mL)	350.8	392.1	3904.7	1026.2	907.6	875.6	1196.4
Mass CO ₂ (g)	0.69	0.77	7.67	2.02	1.78	1.72	2.35
Sample Mass (g)	10	10	10	20.0	20.0	13	20
Theoretical Sample Mass (g)	0.0	8.6	4.2	16.7	18.4	11.4	15.1
Biodegraded Mass (g)	0.33	0.37	3.95	0.99	0.94	0.85	1.16
Percent Biodegraded (%)		0.6	85.8	4.0	3.3	4.6	5.5
* Adjusted Percent Biodegraded (%)		0.7	100.0	4.6	3.9	5.4	6.4

	Inculu m	Negati ve	Positiv e	#5 San + Bio Clear Plastic	#6 Acetal + Bio Green Plastic	#7 Nylon + Bio White Plastic tabs
Cumulative Gas Volume (mL)	780.5	934.7	9091.1	2892.1	1897.2	3054.0
Percent CH ₄ (%)	33.1	32.9	38.1	33.0	32.8	33.0
Volume CH ₄ (mL)	258.0	307.7	3463.0	955.3	622.1	1007.0
Mass CH ₄ (g)	0.18	0.22	2.47	0.68	0.44	0.72
Percent CO ₂ (%)	44.9	41.9	43.0	42.9	43.2	43.0
Volume CO ₂ (mL)	350.8	392.1	3904.7	1240.3	819.5	1312.0
Mass CO ₂ (g)	0.69	0.77	7.67	2.44	1.61	2.58
Sample Mass (g)	10	10	10	20.0	20.0	20
Theoretical Sample Mass (g)	0.0	8.6	4.2	16.3	10.8	12.5
Biodegraded Mass (g)	0.33	0.37	3.95	1.18	0.77	1.24
Percent Biodegraded (%)		0.6	85.8	5.2	4.1	7.3
* Adjusted Percent Biodegraded (%)		0.7	100.0	6.1	4.8	8.5

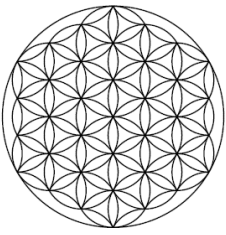
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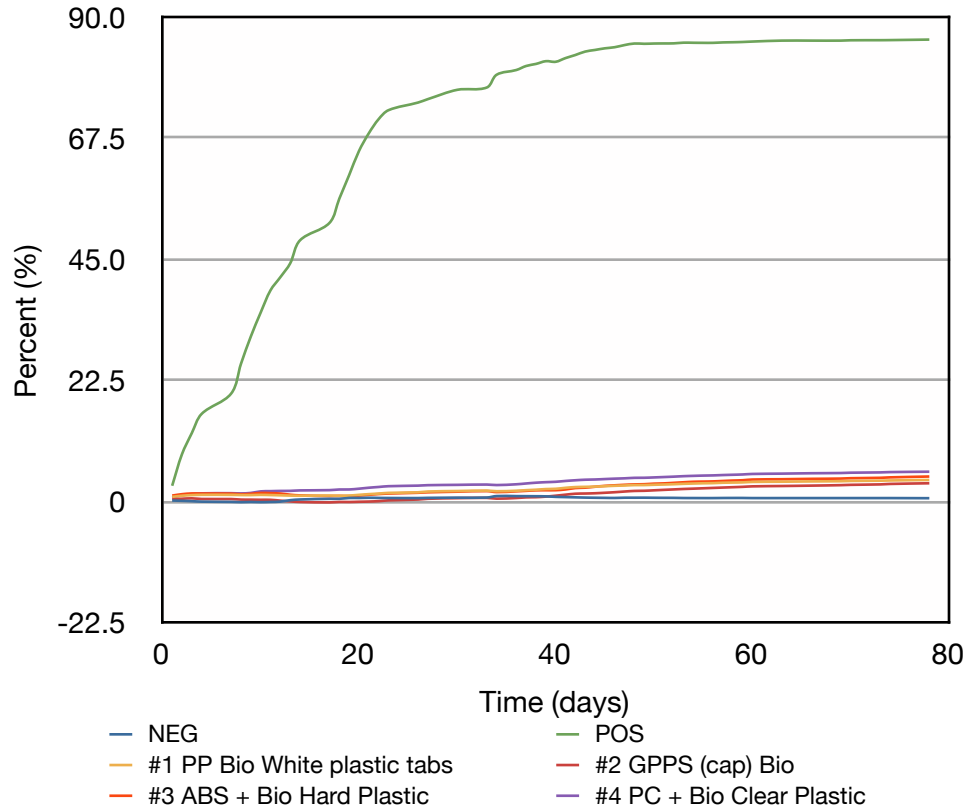
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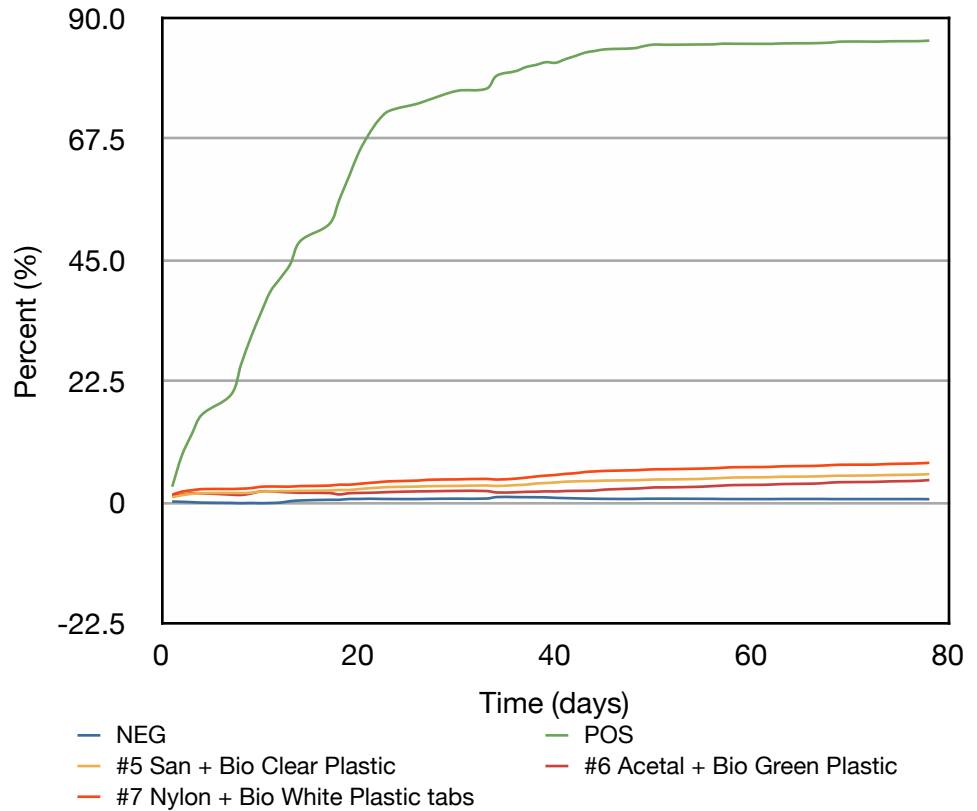
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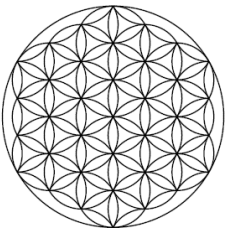
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Biodegradation



Biodegradation





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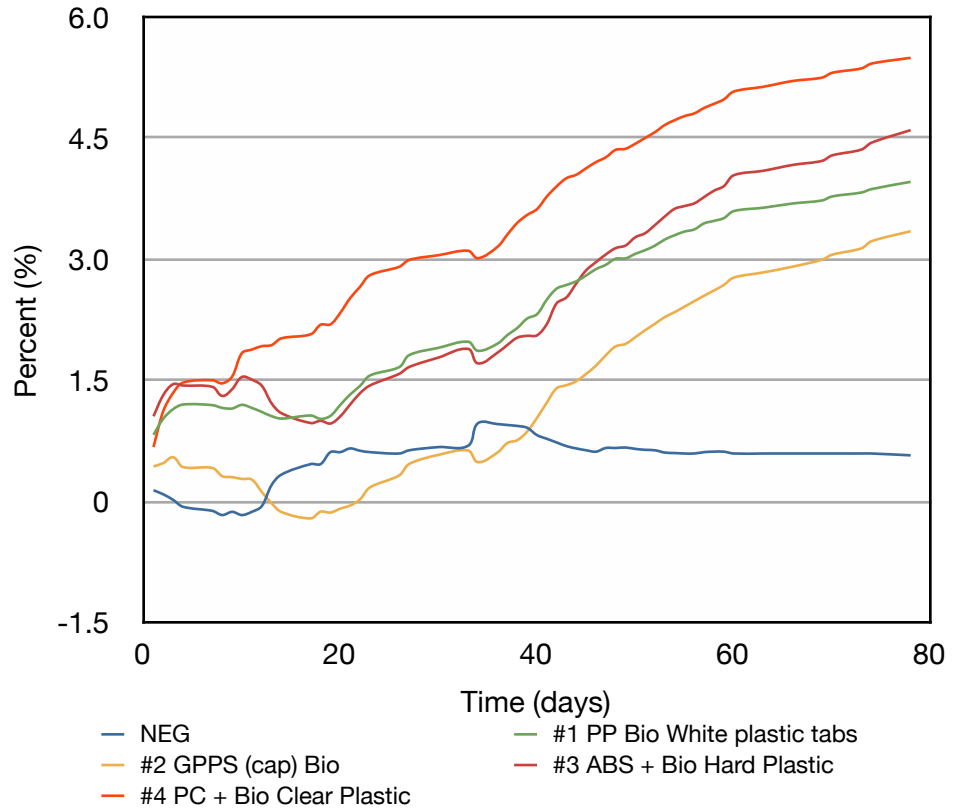
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