



Eden Research Laboratory

To: Biosphere

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Regarding: ASTM D5511 Biosphere Study update (1724 days)

Update

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	Inoculum	Negative	Positive	Primo PP Straw with no Additive	Primo PP Straw with 1% Biosphere Additive	Primo PP Straw with 2% Biosphere Additive
Cumulative Gas Volume (mL)	2049.9	2165.6	10756.9	1594.9	24025.0	24500.1
Percent CH ₄ (%)	46.9	47.4	41.0	34.7	54.3	53.9
Volume CH ₄ (mL)	961.2	1025.7	4415.4	554.0	13037.9	13201.3
Mass CH ₄ (g)	0.69	0.73	3.15	0.40	9.31	9.43
Percent CO ₂ (%)	38.5	37.3	41.6	39.6	35.0	35.2
Volume CO ₂ (mL)	788.8	808.7	4477.9	630.8	8404.3	8620.8
Mass CO ₂ (g)	1.55	1.59	8.80	1.24	16.51	16.93
Sample Mass (g)	10	10	10	20.0	20.0	20
Theoretical Sample Mass (g)	0.0	8.6	4.2	12.5	12.5	12.5
Biodegraded Mass (g)	0.94	0.98	4.76	0.63	11.49	11.69
Percent Biodegraded (%)		0.5	90.7	-2.4	84.3	85.9
* Adjusted Percent Biodegraded (%)		0.6	100.0	-2.7	92.9	94.7

* The adjusted % biodegraded values are for informational purposes. It is not part of the method and will not be reported in the final report.

Biodegradation

