

Eden Research Laboratory

To: Biosphere

Date: July 3, 2023

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Number of pages including cover: 1

Regarding: ASTM D5511 Biosphere Study update (1293 days)

# Update

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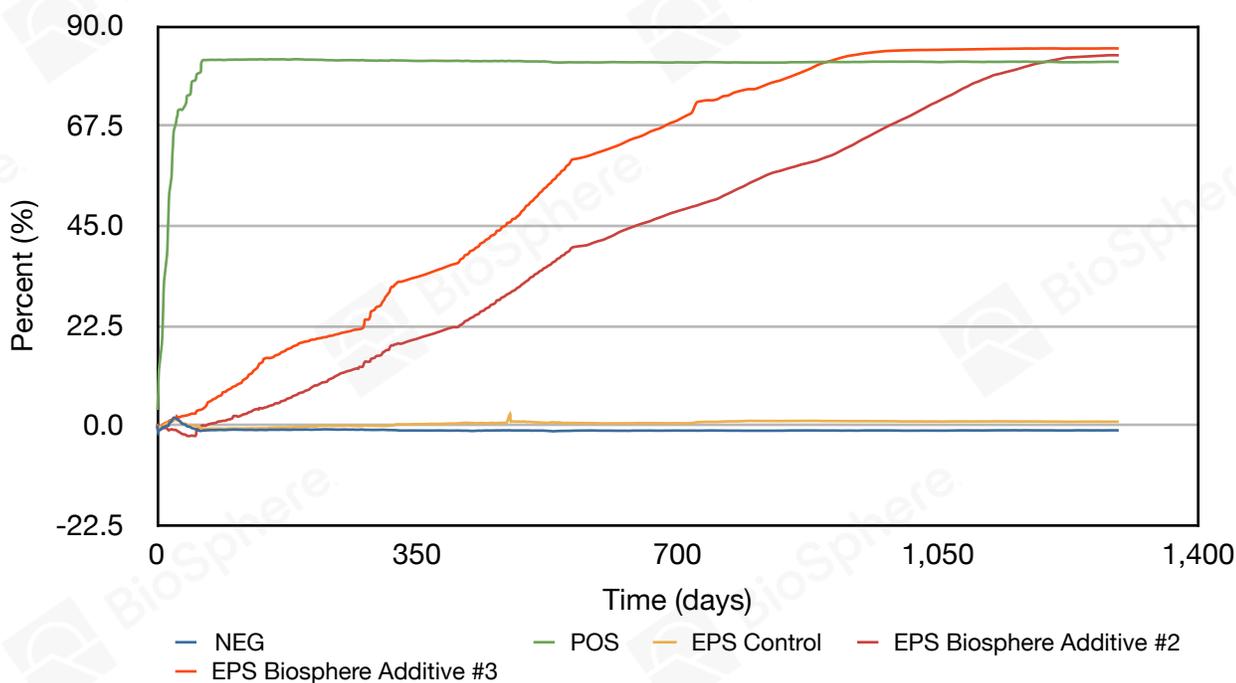
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	Inoculum	Negative	Positive	EPS Control	EPS Biosphere Additive #2	EPS Biosphere Additive #3
Cumulative Gas Volume (mL)	2548.1	2390.8	10406.8	2734.7	18271.7	18689.7
Percent CH <sub>4</sub> (%)	46.7	45.9	40.0	46.7	55.4	54.4
Volume CH <sub>4</sub> (mL)	1189.0	1097.3	4162.3	1276.3	10119.1	10170.5
Mass CH <sub>4</sub> (g)	0.85	0.78	2.97	0.91	7.23	7.26
Percent CO <sub>2</sub> (%)	38.3	38.0	42.8	38.4	35.1	35.4
Volume CO <sub>2</sub> (mL)	976.2	908.4	4457.5	1050.4	6406.1	6620.2
Mass CO <sub>2</sub> (g)	1.92	1.78	8.76	2.06	12.58	13.00
Sample Mass (g)	10	10	10	10.0	10.0	10
Theoretical Sample Mass (g)	0.0	8.6	4.2	9.2	9.2	9.2
Biodegraded Mass (g)	1.16	1.07	4.62	1.25	8.85	9.00
Percent Biodegraded (%)		-1.0	81.9	0.9	83.4	85.0

## Biodegradation



\* This test data is property of BioSphere Plastic LLC and cannot be used for marketing purposes or redistributed for any reason without the prior written consent of BioSphere Plastic.