



Eden Research Laboratory

To: Biosphere

Date: April 15, 2024

From: Thomas Poth

Number of pages including cover: 1

Regarding: ASTM D6691 Biosphere Samples (1849 days)

Update

2412 Princeton NE, Suite E

Albuquerque, NM 87107

T 505.508.3994

M 505.550.9316

thomas.poth@edenresearchlab.com

	Inoculum	Negative	Positive	2165 - Primo PP Straw with no Additive	2166 - Primo PP Straw with 1% Biosphere Additive	2167 - Primo PP Straw with 2% Biosphere Additive
Cumulative Gas Volume (mL)	19.6	21.8	74.3	22.2	85.0	123.5
Percent CO ₂ (%)	94.9	94.8	94.2	94.9	96.1	95.8
Volume CO ₂ (mL)	18.6	20.7	70.0	21.1	81.7	118.2
Mass CO ₂ (g)	0.036	0.041	0.137	0.041	0.161	0.232
Sample Mass (g)		0.080	0.080	0.080	0.080	0.080
Theoretical Sample Mass (g)		0.069	0.034	0.067	0.067	0.067
Biodegraded Mass (g)	0.010	0.011	0.037	0.011	0.044	0.063
Percent Biodegraded (%)		1.7	81.6	2.0	50.7	79.9

Biodegradation

