

Eden Research Laboratory

To: Biosphere

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From: Thomas Poth

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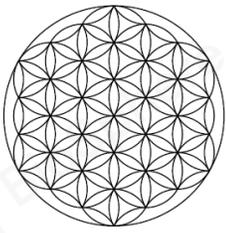
Regarding: D7475 Biosphere Samples (1139 days)

Up -

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	Inocu- lum	Negative	Positive	1845 - High - PE Stan- dard	1846 - High - PE with Bis- Sphere
Percent Solid				35	35
Cumulative Atmos	2.36	2.46	5.76	1.97	18.28
Cumulative Gas Volume (mL)	3641.7	3802.1	8906.0	3046.3	28248.2
Percent CH <sub>4</sub> (%)	47.4	52.1	49.7	50.9	52.2
Volume CH <sub>4</sub> (mL)	1726.5	1980.0	4423.9	1549.3	14757.0
Mass CH <sub>4</sub> (g)	1.23	1.41	3.16	1.11	10.54
Percent CO <sub>2</sub> (%)	50.5	41.8	61.7	42.5	41.7
Volume CO <sub>2</sub> (mL)	1837.8	1589.9	5493.4	1296.0	11793.5
Mass CO <sub>2</sub> (g)	3.61	3.12	10.79	2.55	23.17
Sample Mass (g)	10	10	10	17.0	17.0
Theoretical Sample Mass (g)	0.0	8.6	4.2	14.6	14.6
Biodegraded Mass (g)	1.91	1.91	5.31	1.52	14.22
Percent Biodegraded (%)		0.0	80.6	-2.6	84.5

	Inocu- lum	Negative	Positive	1843 - Medium - PE Stan- dard	1844 - Medium - PE with Bis- Sphere
Percent Solid				45	45
Cumulative Atmos	2.45	2.35	6.34	2.44	16.83
Cumulative Gas Volume (mL)	3780.5	3634.3	9794.5	3772.5	26000.8
Percent CH <sub>4</sub> (%)	48.6	51.2	50.5	51.4	52.8
Volume CH <sub>4</sub> (mL)	1837.9	1862.1	4948.5	1940.4	13720.1
Mass CH <sub>4</sub> (g)	1.31	1.33	3.53	1.39	9.80
Percent CO <sub>2</sub> (%)	47.8	43.4	58.5	41.3	40.8
Volume CO <sub>2</sub> (mL)	1807.6	1577.6	5732.4	1557.7	10596.7
Mass CO <sub>2</sub> (g)	3.55	3.10	11.26	3.06	20.81
Sample Mass (g)	10	10	10	17.0	17.0
Theoretical Sample Mass (g)	0.0	8.6	4.2	14.6	14.6
Biodegraded Mass (g)	1.95	1.84	5.72	1.87	13.03
Percent Biodegraded (%)		-1.3	89.3	-0.5	76.0



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	Inocu- lum	Nega- tive	Positive	1841 - Low - PE Stan- dard	1842 - Low - PE with Bis- Sphere
Percent Solid				60	60
Cumulative Atmos	2.57	2.20	7.19	3.15	14.62
Cumulative Gas Volume (mL)	3965.6	3396.4	11113.3	4866.4	22585.9
Percent CH <sub>4</sub> (%)	50.2	49.8	49.2	52.0	53.7
Volume CH <sub>4</sub> (mL)	1992.2	1693.1	5465.3	2529.3	12139.0
Mass CH <sub>4</sub> (g)	1.42	1.21	3.90	1.81	8.67
Percent CO <sub>2</sub> (%)	44.2	46.0	51.6	40.1	38.9
Volume CO <sub>2</sub> (mL)	1754.4	1563.9	5732.4	1951.2	8786.2
Mass CO <sub>2</sub> (g)	3.45	3.07	11.26	3.83	17.26
Sample Mass (g)	10	10	10	17.0	17.0
Theoretical Sample Mass (g)	0.0	8.6	4.2	14.6	14.6
Biodegraded Mass (g)	2.01	1.74	6.00	2.40	11.21
Percent Biodegraded (%)		-3.1	94.6	2.7	63.2