

Eden Research Laboratory

Update

To: BiologiQ

Date: 2/7/17

From: Thomas Poth

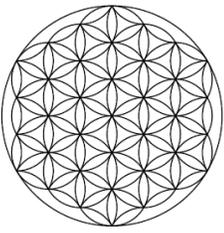
Number of pages including cover: 2

Regarding: ASTM D5511 BiologQ 1342, 1343 & 1344 Samples (349 days)

	Inculum	Negative	Positive	1342 - MBR 15120101 1.1 MIL	1343 - MBR 15121703 1.0 MIL	1344 - MBR 16011801 1.0 MIL
Cumulative Gas Volume (mL)	4064.3	4898.8	12330.2	18429.0	20233.7	31171.1
Percent CH ₄ (%)	43.2	43.6	41.4	48.8	53.7	51.7
Volume CH ₄ (mL)	1757.0	2135.1	5101.0	8992.6	10865.0	16106.6
Mass CH ₄ (g)	1.26	1.53	3.64	6.42	7.76	11.50
Percent CO ₂ (%)	40.4	37.8	41.9	35.5	35.7	38.0
Volume CO ₂ (mL)	1643.0	1852.9	5160.5	6547.5	7230.7	11838.7
Mass CO ₂ (g)	3.23	3.64	10.14	12.86	14.20	23.25
Sample Mass (g)	10	10	10	20.0	20.0	20
Theoretical Sample Mass (g)	0.0	8.6	4.2	9.8	9.8	13.7
Biodegraded Mass (g)	1.82	2.14	5.50	8.33	9.69	14.97
Percent Biodegraded (%)		3.7	87.1	66.4	80.2	95.8

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Biodegradation

