

Eden Research Laboratory

To: Hartalega

Date: September 17, 2019

From: Thomas Poth

Number of pages including cover: 2

Regarding: ASTM D 5511-12 study update for Nitrile Gloves (1779, 1780, 1782) - 490 days

Up-

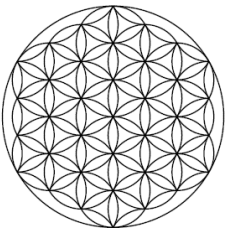
- 1779 Nitrile Powder Free Examination Glove (Blue)
- 1780 After Aging 70C/7 days – Biodegradable Nitrile Powder Free Examination Glove (Blue)
- 1782 After 2 years storage – Biodegradable Nitrile Powder Free Examination Glove (Blue)

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	Inculum	Negative	Positive	1779	1780	1782
Cumulative Gas Volume (mL)	3920.9	4468.7	12675.7	4079.7	30227.1	30551.0
Percent CH ₄ (%)	53.1	52.9	41.6	52.3	55.1	52.9
Volume CH ₄ (mL)	2080.3	2362.5	5269.4	2135.7	16643.7	16163.1
Mass CH ₄ (g)	1.49	1.69	3.76	1.53	11.89	11.55
Percent CO ₂ (%)	35.9	35.6	41.7	36.1	35.8	36.5
Volume CO ₂ (mL)	1407.7	1590.5	5291.6	1471.5	10826.3	11153.0
Mass CO ₂ (g)	2.77	3.12	10.39	2.89	21.27	21.91
Sample Mass (g)	10	10	10	20.0	20.0	20
Theoretical Sample Mass (g)	0.0	8.6	4.2	15.8	15.8	15.8
Biodegraded Mass (g)	1.87	2.12	5.66	1.93	14.72	14.63
Percent Biodegraded (%)		2.9	89.8	0.4	81.3	80.8
* Adjusted Percent Biodegraded (%)		3.2	100.0	0.5	90.6	90.0

* Outside of the ASTM D5511 method and on the assumption that the positive control (Cellulose) will fully biodegrade, all value have been proportionally adjusted. This is for informational purposes only and may not be reliable.



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Biodegradation

