



Eden Research Laboratory

To: BioSphere

Date: August 18, 2016

From: Thomas Poth

Number of pages including cover: 1

Regarding: ASTM D5338 test update for Toothbrushes - 468 days

The carbon content of the treated sample in this test was estimated to be 82.2% carbon.

# Update

2111 Menaul NE, Suite A  
Albuquerque, NM 87107  
T 505.508.3994

M 505.550.9316

thomas.poth@edenresearchlab.com

	Inculum	Negative	Positive	1229 - EcoFam 5338 Toothbrush Treated
Cumulative Gas Volume (mL)	3185.1	3734.2	10650.5	32005.9
Percent CO <sub>2</sub> (%)	84.3	80.6	82.4	89.6
Volume CO <sub>2</sub> (mL)	2686.1	3010.5	8770.8	28680.4
Mass CO <sub>2</sub> (g)	5.28	5.91	17.23	56.34
Sample Mass (g)	1,000	10	10	20.0
Theoretical Sample Mass (g)	0.0	8.6	4.2	16.4
Biodegraded Mass (g)	1.44	1.61	4.70	15.36
Percent Biodegraded (%)		2.0	77.2	84.7

## Biodegradation

