

# **Testing / Certification/ Verification Report**

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**Job Number :** 2009F010 **Date :** 20-05-21  
**Sample Description :** Zero Travity Towel **Page** 1 of 4  
**Sample Source :** Andex International Enterprise Limited  
 Room 1209, 12/F, Fonda Industrial Building, No.37-39 Au Pui Wan Street, Fo Tan, Shatin, New Territories, Hong Kong  
**Sampling Done by :** The above company  
**Receipt Date :** 30/09/2020  
**Test Performing Date :** 02/11/2020 - 01/04/2021  
**Nature of Test :** Determination of the ultimate aerobic degradability of plastic materials under controlled composting conditions

**Test Results :**

**I. Sample Description**

Sample ID	Sample Description
1	Zero Travity Towel

**II. Objectives:**

1. To determine the aerobic biodegradability of plastics under controlled composting conditions by measurement of the total amount of carbon dioxide evolved.

**III. Methods:**

1. Determination of the ultimate aerobic biodegradability of plastic materials under controlled composting conditions – Method by analysis of evolved carbon dioxide (reference to ISO 14855-1:2012)

**IV. Instrumentation**

ECHO respirometer

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**Test Results :**

**V. Procedure**

**Aerobic Biodegradability**

Reference materials: Cellulose, microcrystalline powder. 20 micron

The information of the inoculum:

The volatile solids of inoculum was 17% of the wet solids. The compost was adjusted to be 50%-55% by adding water and the pH of the inoculum was 8.5. The amount of carbon dioxide produced after 10 days of incubation was 62 mg /g of volatile solids.

The amount of material in each testing vessel

Vessel	Weight of Inoculum (g)	Weight of reference (g)	Weight of testing materials (g)	No. of vessels
Blank	180	0	0	3
Reference	180	0	16	3
Zero Travity Towel	180	16	0	3

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**Test Results :**

**VI. Results:**

**Aerobic Biodegradability**

1. The basic information of the reference material and the testing sample

Sample	Dry solids (%)	TOC of dry solids (g/g)	THCO <sub>2</sub> (g)
Reference	99.9	0.5	29.30
Zero Travity Towel	99.9	0.45	26.37

2. The testing condition of the Incubation period

Chamber temperature (°C)	Air flow (ml/min)	Incubation period (day)
58±2	150	150

3. Validity of results

- The percentage of the biodegradation of the reference material was 78.05% after 45 days.
- The difference between the percentage biodegradation of the reference material in different vessels is less than 20%
- The amount of carbon dioxide produced from the blank after 10 days of incubation was 62 mg /g of volatile solids.

4. The results of the percentage biodegradation

The carbon dioxide evolved and the degree of biodegradation of each vessel were listed in Table 1 and Table 2 in annex A.

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<b>Sampling Done by :</b>	The above company		
<b>Receipt Date :</b>	30/09/2020		
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## Test Results :

5. The degree of biodegradation of the Zero Travity Towel after 150 days incubation related to maximum degradation rate of the reference materials was 97.14%.

## VII. Conclusion:

The degree of biodegradation of the Zero Travity Towel sample under aerobic condition after 150 days of incubation was 97.14% (related to degradation rate of the reference materials), which is higher than 90% as stated in the section A2.2.2 of EN13432:2000.

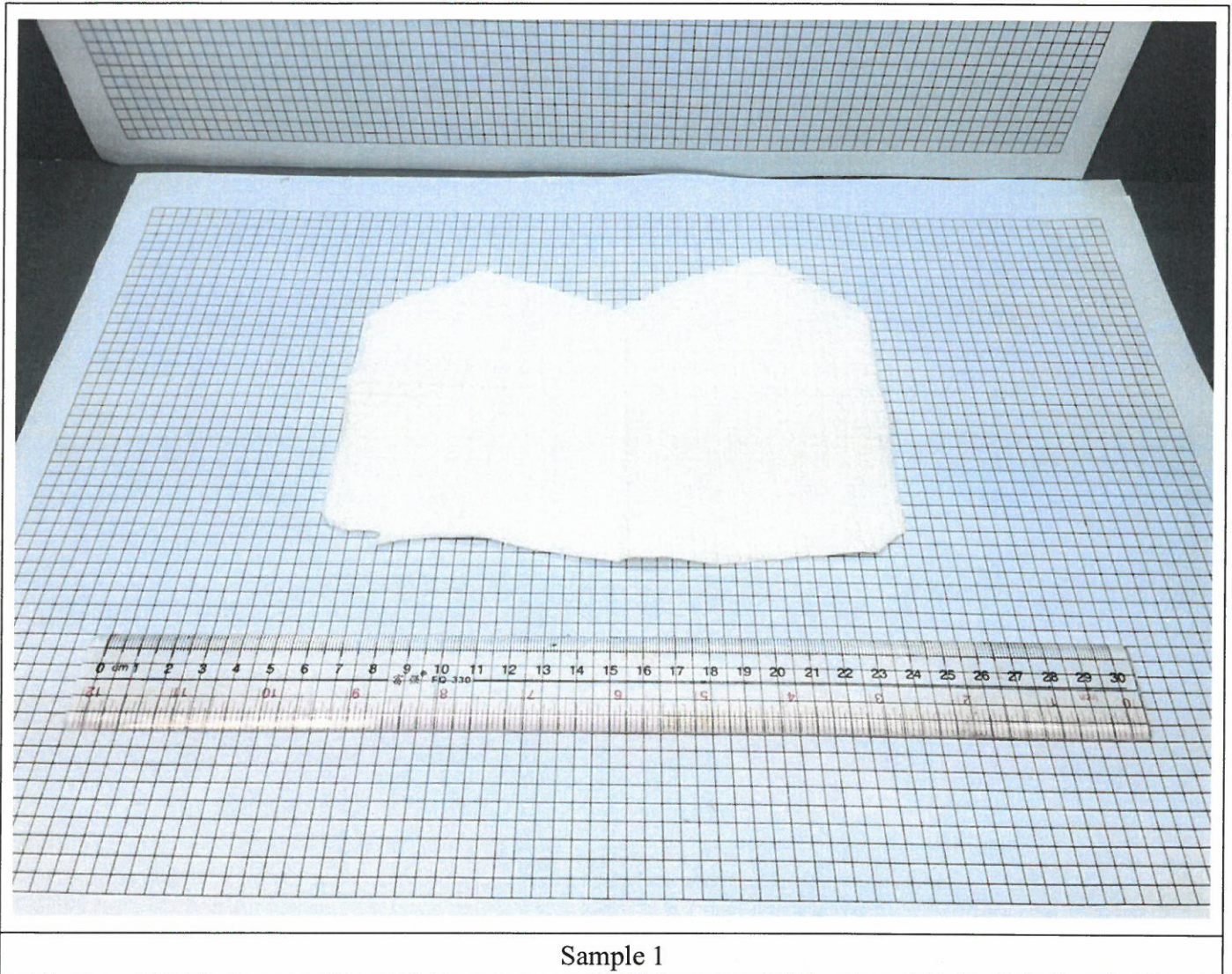


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**-End of Report-**



The client claimed the test samples are the same materials that used to make final products.

Table 1 The carbon dioxide evolved of each vessels

No. of days	Carbon dioxide evolved (mg)								
	Blank (1)	Blank (2)	Blank (3)	Cellulose (1)	Cellulose (2)	Cellulose (3)	Towel (1)	Towel (2)	Towel (3)
0	0	0	0	0	0	0	0	0	0
1	12	14	15	21	22	25	34	24	45
2	210	223	238	287	310	323	329	172	381
3	470	486	506	669	711	736	780	672	875
4	716	728	762	1538	1696	1659	1637	1634	1886
5	939	955	975	2219	2520	2605	2408	2527	2805
6	1128	1146	1192	2910	3344	3440	3080	3296	3566
7	1330	1342	1394	3698	4188	4306	3809	4041	4327
8	1519	1526	1585	4622	5168	5316	4588	5042	5384
9	1681	1687	1748	6065	6789	6977	5648	6275	6716
10	1855	1854	1923	8021	9022	9240	6874	7562	7936
11	2023	2013	2086	10187	11247	11493	7949	8651	9284
12	2170	2150	2227	11982	13442	13726	9046	9761	10477
13	2329	2299	2378	13652	15249	15594	10050	10760	11645
14	2486	2441	2525	15031	16800	17194	10873	11581	12556
15	2639	2581	2655	16142	18058	18467	11694	12388	13500
16	2773	2701	2793	17264	19338	19745	12444	13084	14312
17	2917	2830	2927	18304	20487	20874	13102	13651	14961
18	3058	2954	3058	19167	21323	21730	13627	14211	15637
19	3184	3065	3173	20006	21991	22436	14163	14716	16281
20	3311	3182	3292	20653	22472	22944	14664	15161	16889
21	3448	3308	3418	21203	22896	23345	15105	15537	17423
22	3584	3419	3532	21629	23239	23739	15572	15930	17992
23	3704	3542	3654	22072	23590	24102	16009	16292	18519
24	3837	3663	3776	22488	23918	24449	16383	16590	18962
25	3967	3783	3894	22850	24201	24749	16775	16899	19428
26	4083	3888	3999	23236	24506	25077	17140	17179	19859
27	4211	4005	4115	23617	24800	25397	17483	17441	20226
28	4339	4119	4229	23986	25056	25682	17773	17658	20610

29	4453	4221	4331	24311	25335	25993	18076	17886	20968
30	4565	4321	4420	24592	25555	26236	18304	18055	21235
31	4692	4434	4533	24941	25835	26551	18561	18249	21542
32	4816	4543	4630	25226	26077	26815	19110	18439	21842
33	4927	4639	4736	25530	26338	27100	19604	18621	22122
34	5049	4746	4841	25819	26597	27375	20152	18772	22353
35	5169	4851	4945	26067	26823	27611	20714	18937	22604
36	5275	4944	5036	26324	27068	27865	21366	19091	22838
37	5393	5046	5138	26567	27307	28110	21982	19239	23058
38	5507	5150	5236	26794	27534	28320	22476	19366	23245
39	5621	5240	5325	26986	27737	28544	22959	19506	23446
40	5721	5340	5419	27184	27952	28757	23382	19637	23633
41	5832	5439	5517	27374	28162	28962	23709	19752	23795
42	5941	5538	5601	27531	28345	29140	24031	19876	23971
43	6036	5625	5696	27701	28540	29329	24313	19994	24136
44	6143	5724	5792	27865	28734	29511	24571	20097	24282
45	6249	5821	5886	28003	28902	29668	24779	20209	24437
46	6343	5907	5969	28153	29084	29837	24991	20318	24588
47	6445	6003	6061	28294	29258	29999	25185	20422	24733
48	6547	6097	6152	28428	29427	30139	25349	20512	24856
49	6647	6181	6233	28545	29575	30289	25519	20609	24992
50	6736	6272	6323	28671	29737	30437	25681	20702	25125
51	6831	6362	6409	28791	29888	30575	25813	20777	25236
52	6915	6441	6481	28889	30011	30687	25951	20854	25351
53	6997	6521	6564	28995	30144	30815	26086	20944	25468
54	7090	6611	6649	29108	30288	30946	26221	21046	25572
55	7184	6700	6734	29223	30418	31062	26342	21141	25685
56	7267	6781	6810	29326	30563	31192	26474	21251	25797
57	7360	6869	6892	29438	30704	31316	26601	21360	25906
58	7452	6958	6974	29548	30840	31424	26717	21458	26001
59	7544	7039	7049	29649	30962	31544	26846	21574	26108
60	7626	7127	7131	29759	31094	31661	26971	21690	26214
61	7717	7219	7215	29868	31225	31777	27096	21799	26310



62	7806	7308	7296	29962	31339	31879	27206	21916	26411
63	7885	7388	7368	30065	31463	31991	27327	22037	26514
64	7973	7477	7449	30168	31585	32102	27449	22160	26606
65	8059	7565	7527	30266	31691	32197	27557	22270	26706
66	8136	7642	7598	30355	31807	32302	27676	22390	26804
67	8220	7727	7675	30451	31920	32404	27794	22514	26902
68	8304	7812	7753	30545	32032	32495	27898	22627	26989
69	8387	7889	7823	30630	32133	32596	28014	22753	27086
70	8461	7974	7899	30720	32243	32695	28128	22881	27184
71	8542	8058	7975	30809	32349	32792	28239	22991	27270
72	8624	8142	8051	30889	32445	32880	28339	23120	27365
73	8696	8217	8118	30978	32551	32976	28448	23245	27457
74	8775	8300	8191	31063	32653	33067	28552	23381	27538
75	8854	8382	8264	31148	32745	33151	28651	23592	27630
76	8924	8454	8329	31221	32842	33239	28756	23895	27716
77	9002	8536	8403	31304	32941	33331	28865	24326	27805
78	9079	8617	8477	31385	33037	33420	28962	24740	27883
79	9155	8699	8544	31460	33123	33500	29069	25142	27968
80	9223	8771	8618	31540	33215	33586	29174	25472	28053
81	9297	8849	8691	31620	33306	33670	29279	25728	28128
82	9369	8927	8763	31689	33385	33745	29371	25972	28209
83	9435	8998	8829	31767	33473	33828	29473	26190	28290
84	9509	9075	8903	31844	33561	33910	29576	26391	28363
85	9581	9152	8975	31921	33647	33983	29668	26567	28443
86	9653	9222	9040	31988	33723	34064	29771	26750	28525
87	9718	9298	9111	32062	33806	34142	29867	26918	28598
88	9790	9374	9184	32137	33889	34221	29955	27071	28680
89	9862	9450	9249	32202	33963	34291	30051	27254	28849
90	9926	9519	9321	32277	34045	34368	30146	27441	29014
91	9933	9526	9329	32284	34054	34368	30146	27441	29014
92	9955	9543	9345	32301	34073	34386	30169	27483	29062
93	10018	9618	9416	32371	34156	34460	30259	27632	29248
94	10088	9693	9487	32441	34242	34534	30340	27762	29404

95	10157	9767	9551	32504	34319	34599	30428	27895	29568
96	10219	9835	9622	32573	34405	34672	30513	28025	29717
97	10287	9908	9692	32641	34487	34744	30599	28139	29842
98	10355	9981	9762	32701	34559	34807	30673	28264	29974
99	10415	10047	9825	32768	34637	34878	30757	28385	30099
100	10483	10119	9895	32835	34715	34948	30840	28503	30220
101	10550	10190	9964	32901	34789	35010	30913	28607	30322
102	10616	10253	10026	32959	34855	35078	30993	28721	30429
103	10675	10324	10095	33024	34928	35146	31073	28831	30536
104	10740	10395	10164	33089	35000	35212	31143	28927	30629
105	10806	10466	10226	33146	35063	35272	31222	29035	30730
106	10864	10530	10295	33209	35134	35337	31297	29138	30828
107	10928	10599	10362	33272	35203	35402	31374	29240	30915
108	10993	10669	10430	33334	35264	35461	31444	29330	31011
109	11050	10732	10492	33391	35332	35526	31519	29427	31107
110	11114	10801	10559	33451	35398	35588	31590	29519	31197
111	11178	10871	10627	33513	35465	35646	31656	29602	31278
112	11241	10933	10688	33568	35524	35709	31728	29695	31365
113	11297	11001	10754	33628	35588	35772	31801	29784	31455
114	11359	11069	10821	33686	35651	35833	31870	29863	31529
115	11421	11136	10887	33739	35707	35888	31932	29949	31630
116	11476	11197	10948	33797	35768	35947	32000	30030	31728
117	11538	11264	11015	33857	35830	36007	32069	30113	31818
118	11600	11331	11082	33915	35885	36060	32131	30184	31915
119	11655	11390	11142	33967	35946	36119	32198	30262	32012
120	11716	11457	11211	34025	36008	36179	32267	30341	32108
121	11775	11521	11277	34080	36065	36230	32325	30408	32191
122	11836	11581	11339	34132	36118	36288	32390	30482	32281
123	11890	11646	11407	34191	36178	36347	32458	30558	32373
124	11948	11709	11471	34245	36233	36401	32524	30626	32452
125	12007	11773	11539	34295	36284	36452	32626	30695	32529
126	12060	11831	11600	34352	36341	36509	32736	30773	32615
127	12118	11894	11666	34408	36398	36567	32849	30851	32696

128	12175	11957	11732	34463	36447	36617	32948	30921	32787
129	12227	12013	11791	34512	36501	36670	33059	30993	32872
130	12278	12070	11847	34559	36547	36720	33162	31059	32950
131	12333	12131	11913	34613	36594	36768	33276	31126	33033
132	12382	12187	11973	34664	36649	36827	33400	31196	33120
133	12438	12248	12041	34719	36702	36882	33522	31267	33208
134	12492	12308	12106	34772	36752	36929	33628	31329	33289
135	12546	12361	12163	34819	36796	36979	33739	31394	33376
136	12595	12420	12228	34871	36845	37032	33846	31464	33467
137	12649	12479	12292	34923	36892	37082	33938	31521	33547
138	12702	12539	12351	34971	36936	37128	34036	31587	33637
139	12750	12592	12415	35023	36981	37177	34127	31646	33720
140	12802	12651	12479	35074	37025	37227	34214	31708	33797
141	12855	12708	12542	35125	37064	37272	34295	31763	33885
142	12903	12759	12598	35172	37104	37320	34378	31819	33971
143	12955	12815	12661	35222	37145	37368	34461	31872	34056
144	13007	12870	12724	35275	37184	37411	34535	31916	34133
145	13059	12918	12781	35321	37218	37460	34615	31961	34217
146	13104	12969	12842	35372	37254	37507	34692	32002	34298
147	13154	13020	12903	35422	37288	37554	34765	32035	34371
148	13202	13069	12964	35467	37320	37597	34831	32068	34454
149	13244	13112	13017	35516	37350	37641	34901	32096	34533
150	13290	13157	13075	35564	37379	37686	34968	32120	34603

Table 2 The percentage biodegradation of each vessel and average

No. of days	Cellulose (1)	Cellulose (2)	Cellulose (3)	Average	Towel (1)	Towel (2)	Towel (3)	Average
0	0.00	0.00	0.00	<b>0.00</b>	0.00	0.00	0.00	<b>0.00</b>
1	0.02	0.03	0.04	<b>0.03</b>	0.08	0.04	0.12	<b>0.08</b>
2	0.22	0.29	0.34	<b>0.28</b>	0.40	-0.20	0.60	<b>0.27</b>
3	0.62	0.76	0.85	<b>0.74</b>	1.11	0.70	1.47	<b>1.09</b>
4	2.74	3.28	3.15	<b>3.06</b>	3.42	3.41	4.36	<b>3.73</b>
5	4.31	5.34	5.63	<b>5.09</b>	5.50	5.95	7.01	<b>6.16</b>
6	5.99	7.47	7.80	<b>7.08</b>	7.30	8.12	9.14	<b>8.18</b>
7	8.00	9.67	10.07	<b>9.24</b>	9.30	10.18	11.27	<b>10.25</b>
8	10.50	12.37	12.87	<b>11.92</b>	11.55	13.26	14.56	<b>13.12</b>
9	14.88	17.35	17.99	<b>16.74</b>	14.95	17.33	19.00	<b>17.09</b>
10	20.96	24.38	25.12	<b>23.49</b>	18.95	21.55	22.97	<b>21.16</b>
11	27.80	31.42	32.26	<b>30.49</b>	22.40	25.07	27.46	<b>24.98</b>
12	33.44	38.43	39.39	<b>37.09</b>	26.02	28.73	31.45	<b>28.74</b>
13	38.62	44.07	45.24	<b>42.64</b>	29.25	31.94	35.30	<b>32.16</b>
14	42.82	48.85	50.20	<b>47.29</b>	31.81	34.49	38.19	<b>34.83</b>
15	46.12	52.66	54.06	<b>50.95</b>	34.39	37.02	41.24	<b>37.55</b>
16	49.51	56.59	57.98	<b>54.69</b>	36.73	39.16	43.82	<b>39.90</b>
17	52.60	60.04	61.37	<b>58.00</b>	38.72	40.80	45.77	<b>41.76</b>
18	55.09	62.45	63.84	<b>60.46</b>	40.21	42.42	47.83	<b>43.48</b>
19	57.55	64.33	65.84	<b>62.57</b>	41.79	43.89	49.82	<b>45.17</b>
20	59.35	65.56	67.16	<b>64.02</b>	43.23	45.12	51.67	<b>46.67</b>
21	60.78	66.56	68.09	<b>65.15</b>	44.41	46.05	53.20	<b>47.89</b>
22	61.83	67.32	69.03	<b>66.06</b>	45.73	47.09	54.91	<b>49.24</b>
23	62.92	68.10	69.85	<b>66.96</b>	46.92	48.00	56.44	<b>50.45</b>
24	63.91	68.79	70.61	<b>67.77</b>	47.87	48.65	57.65	<b>51.39</b>
25	64.73	69.34	71.21	<b>68.43</b>	48.89	49.36	58.95	<b>52.40</b>
26	65.68	70.01	71.96	<b>69.22</b>	49.86	50.01	60.17	<b>53.35</b>
27	66.57	70.60	72.64	<b>69.94</b>	50.70	50.55	61.11	<b>54.12</b>
28	67.42	71.07	73.21	<b>70.57</b>	51.36	50.92	62.11	<b>54.80</b>

29	68.17	71.66	73.91	<b>71.25</b>	52.10	51.38	63.07	<b>55.52</b>
30	68.78	72.07	74.39	<b>71.75</b>	52.58	51.64	63.70	<b>55.98</b>
31	69.57	72.62	75.07	<b>72.42</b>	53.11	51.93	64.42	<b>56.49</b>
32	70.17	73.07	75.59	<b>72.95</b>	54.78	52.23	65.14	<b>57.38</b>
33	70.85	73.61	76.21	<b>73.56</b>	56.25	52.53	65.80	<b>58.19</b>
34	71.46	74.11	76.77	<b>74.11</b>	57.91	52.68	66.26	<b>58.95</b>
35	71.93	74.51	77.20	<b>74.55</b>	59.63	52.89	66.79	<b>59.77</b>
36	72.48	75.02	77.73	<b>75.08</b>	61.73	53.11	67.31	<b>60.72</b>
37	72.94	75.46	78.21	<b>75.54</b>	63.66	53.26	67.74	<b>61.55</b>
38	73.36	75.88	78.56	<b>75.93</b>	65.13	53.34	68.05	<b>62.18</b>
39	73.68	76.24	78.99	<b>76.30</b>	66.60	53.50	68.44	<b>62.85</b>
40	74.02	76.64	79.39	<b>76.68</b>	67.83	53.63	68.78	<b>63.41</b>
41	74.32	77.01	79.74	<b>77.02</b>	68.68	53.67	69.01	<b>63.79</b>
42	74.52	77.30	80.01	<b>77.28</b>	69.53	53.78	69.30	<b>64.20</b>
43	74.79	77.65	80.34	<b>77.59</b>	70.25	53.87	69.58	<b>64.57</b>
44	75.00	77.97	80.62	<b>77.86</b>	70.84	53.88	69.75	<b>64.83</b>
45	75.14	78.20	80.82	<b>78.05</b>	71.26	53.93	69.96	<b>65.05</b>
46	75.35	78.52	81.10	<b>78.32</b>	71.73	54.01	70.20	<b>65.32</b>
47	75.50	78.79	81.32	<b>78.53</b>	72.10	54.04	70.39	<b>65.51</b>
48	75.63	79.04	81.47	<b>78.71</b>	72.36	54.02	70.49	<b>65.62</b>
49	75.73	79.24	81.68	<b>78.88</b>	72.67	54.05	70.67	<b>65.80</b>
50	75.85	79.49	81.88	<b>79.07</b>	72.94	54.06	70.83	<b>65.95</b>
51	75.95	79.70	82.04	<b>79.23</b>	73.10	54.01	70.91	<b>66.01</b>
52	76.02	79.85	82.16	<b>79.34</b>	73.33	54.00	71.05	<b>66.13</b>
53	76.10	80.02	82.31	<b>79.48</b>	73.53	54.03	71.18	<b>66.25</b>
54	76.18	80.21	82.46	<b>79.62</b>	73.70	54.08	71.24	<b>66.34</b>
55	76.27	80.35	82.55	<b>79.72</b>	73.82	54.10	71.33	<b>66.42</b>
56	76.35	80.57	82.72	<b>79.88</b>	74.02	54.21	71.45	<b>66.56</b>
57	76.43	80.75	82.84	<b>80.01</b>	74.17	54.30	71.53	<b>66.67</b>
58	76.51	80.92	82.91	<b>80.11</b>	74.27	54.33	71.56	<b>66.72</b>
59	76.57	81.05	83.04	<b>80.22</b>	74.45	54.46	71.66	<b>66.86</b>
60	76.66	81.22	83.15	<b>80.34</b>	74.61	54.58	71.73	<b>66.98</b>
61	76.73	81.36	83.24	<b>80.44</b>	74.74	54.66	71.76	<b>67.05</b>

62	76.75	81.45	83.30	<b>80.50</b>	74.83	54.78	71.82	<b>67.14</b>
63	76.84	81.61	83.42	<b>80.62</b>	75.00	54.94	71.92	<b>67.29</b>
64	76.90	81.74	83.50	<b>80.71</b>	75.14	55.08	71.94	<b>67.39</b>
65	76.95	81.81	83.54	<b>80.77</b>	75.23	55.18	72.00	<b>67.47</b>
66	77.00	81.95	83.64	<b>80.86</b>	75.39	55.35	72.09	<b>67.61</b>
67	77.04	82.06	83.71	<b>80.94</b>	75.53	55.51	72.15	<b>67.73</b>
68	77.08	82.16	83.74	<b>80.99</b>	75.61	55.63	72.17	<b>67.80</b>
69	77.11	82.24	83.82	<b>81.06</b>	75.76	55.81	72.24	<b>67.94</b>
70	77.15	82.35	83.89	<b>81.13</b>	75.90	56.00	72.32	<b>68.07</b>
71	77.18	82.44	83.95	<b>81.19</b>	76.02	56.12	72.34	<b>68.16</b>
72	77.18	82.49	83.98	<b>81.22</b>	76.09	56.30	72.39	<b>68.26</b>
73	77.24	82.61	84.06	<b>81.30</b>	76.23	56.50	72.47	<b>68.40</b>
74	77.26	82.69	84.10	<b>81.35</b>	76.33	56.72	72.48	<b>68.51</b>
75	77.29	82.74	84.12	<b>81.38</b>	76.40	57.22	72.53	<b>68.72</b>
76	77.30	82.83	84.19	<b>81.44</b>	76.54	58.11	72.60	<b>69.08</b>
77	77.32	82.90	84.23	<b>81.48</b>	76.66	59.45	72.64	<b>69.58</b>
78	77.33	82.97	84.27	<b>81.52</b>	76.73	60.73	72.64	<b>70.03</b>
79	77.33	83.00	84.29	<b>81.54</b>	76.86	61.97	72.68	<b>70.50</b>
80	77.36	83.08	84.34	<b>81.59</b>	76.99	62.95	72.74	<b>70.89</b>
81	77.38	83.13	84.37	<b>81.63</b>	77.10	63.64	72.74	<b>71.16</b>
82	77.36	83.15	84.38	<b>81.63</b>	77.16	64.28	72.76	<b>71.40</b>
83	77.39	83.21	84.43	<b>81.68</b>	77.29	64.85	72.81	<b>71.65</b>
84	77.40	83.26	84.45	<b>81.70</b>	77.40	65.32	72.80	<b>71.84</b>
85	77.41	83.30	84.45	<b>81.72</b>	77.47	65.71	72.83	<b>72.00</b>
86	77.41	83.33	84.49	<b>81.74</b>	77.60	66.15	72.88	<b>72.21</b>
87	77.42	83.37	84.51	<b>81.77</b>	77.70	66.51	72.89	<b>72.37</b>
88	77.42	83.40	84.53	<b>81.78</b>	77.75	66.82	72.92	<b>72.49</b>
89	77.40	83.41	84.53	<b>81.78</b>	77.84	67.24	73.29	<b>72.79</b>
90	77.42	83.46	84.56	<b>81.81</b>	77.95	67.69	73.66	<b>73.10</b>
91	77.42	83.46	84.53	<b>81.81</b>	77.92	67.66	73.63	<b>73.07</b>
92	77.42	83.47	84.53	<b>81.81</b>	77.94	67.75	73.74	<b>73.14</b>
93	77.42	83.51	84.55	<b>81.83</b>	78.02	68.05	74.18	<b>73.42</b>
94	77.41	83.56	84.55	<b>81.84</b>	78.05	68.27	74.50	<b>73.61</b>

95	77.39	83.59	84.54	<b>81.84</b>	78.12	68.52	74.86	<b>73.83</b>
96	77.40	83.65	84.56	<b>81.87</b>	78.19	68.75	75.17	<b>74.04</b>
97	77.39	83.69	84.57	<b>81.88</b>	78.25	68.92	75.38	<b>74.18</b>
98	77.36	83.70	84.54	<b>81.87</b>	78.26	69.13	75.61	<b>74.33</b>
99	77.37	83.75	84.57	<b>81.90</b>	78.34	69.35	75.85	<b>74.51</b>
100	77.36	83.77	84.57	<b>81.90</b>	78.39	69.53	76.04	<b>74.65</b>
101	77.35	83.79	84.55	<b>81.90</b>	78.41	69.66	76.17	<b>74.75</b>
102	77.33	83.80	84.56	<b>81.90</b>	78.47	69.85	76.33	<b>74.88</b>
103	77.32	83.82	84.56	<b>81.90</b>	78.52	70.02	76.48	<b>75.01</b>
104	77.31	83.83	84.56	<b>81.90</b>	78.53	70.12	76.57	<b>75.07</b>
105	77.28	83.83	84.54	<b>81.88</b>	78.57	70.28	76.71	<b>75.19</b>
106	77.28	83.85	84.54	<b>81.89</b>	78.62	70.43	76.84	<b>75.30</b>
107	77.27	83.85	84.54	<b>81.89</b>	78.66	70.56	76.92	<b>75.38</b>
108	77.25	83.83	84.50	<b>81.86</b>	78.66	70.65	77.02	<b>75.45</b>
109	77.23	83.86	84.52	<b>81.87</b>	78.72	70.79	77.16	<b>75.55</b>
110	77.21	83.86	84.51	<b>81.86</b>	78.74	70.88	77.24	<b>75.62</b>
111	77.19	83.85	84.47	<b>81.84</b>	78.73	70.94	77.30	<b>75.66</b>
112	77.17	83.85	84.48	<b>81.83</b>	78.77	71.06	77.39	<b>75.74</b>
113	77.16	83.85	84.48	<b>81.83</b>	78.80	71.16	77.49	<b>75.82</b>
114	77.13	83.84	84.46	<b>81.81</b>	78.82	71.21	77.53	<b>75.85</b>
115	77.09	83.81	84.43	<b>81.78</b>	78.81	71.29	77.66	<b>75.92</b>
116	77.09	83.82	84.42	<b>81.78</b>	78.84	71.37	77.81	<b>76.01</b>
117	77.07	83.80	84.41	<b>81.76</b>	78.85	71.44	77.90	<b>76.06</b>
118	77.04	83.77	84.36	<b>81.73</b>	78.84	71.46	78.02	<b>76.11</b>
119	77.02	83.78	84.37	<b>81.72</b>	78.87	71.53	78.17	<b>76.19</b>
120	77.00	83.76	84.35	<b>81.70</b>	78.89	71.58	78.29	<b>76.25</b>
121	76.97	83.74	84.31	<b>81.67</b>	78.87	71.60	78.36	<b>76.28</b>
122	76.94	83.72	84.30	<b>81.65</b>	78.89	71.65	78.47	<b>76.34</b>
123	76.93	83.71	84.29	<b>81.64</b>	78.91	71.70	78.58	<b>76.40</b>
124	76.90	83.69	84.26	<b>81.62</b>	78.92	71.72	78.65	<b>76.43</b>
125	76.86	83.64	84.22	<b>81.57</b>	79.07	71.75	78.70	<b>76.51</b>
126	76.86	83.64	84.22	<b>81.57</b>	79.27	71.83	78.81	<b>76.63</b>
127	76.83	83.62	84.20	<b>81.55</b>	79.46	71.89	78.88	<b>76.74</b>

128	76.81	83.58	84.16	<b>81.52</b>	79.60	71.91	78.99	<b>76.83</b>
129	76.79	83.57	84.15	<b>81.50</b>	79.81	71.98	79.10	<b>76.96</b>
130	76.76	83.54	84.13	<b>81.48</b>	79.99	72.02	79.19	<b>77.07</b>
131	76.74	83.50	84.09	<b>81.44</b>	80.19	72.04	79.27	<b>77.17</b>
132	76.72	83.50	84.10	<b>81.44</b>	80.46	72.10	79.39	<b>77.32</b>
133	76.70	83.47	84.08	<b>81.42</b>	80.68	72.13	79.50	<b>77.44</b>
134	76.68	83.44	84.04	<b>81.38</b>	80.86	72.15	79.57	<b>77.53</b>
135	76.65	83.40	84.02	<b>81.36</b>	81.07	72.18	79.70	<b>77.65</b>
136	76.63	83.37	84.01	<b>81.34</b>	81.26	72.23	79.83	<b>77.77</b>
137	76.61	83.33	83.98	<b>81.31</b>	81.39	72.22	79.91	<b>77.84</b>
138	76.58	83.28	83.94	<b>81.27</b>	81.54	72.25	80.03	<b>77.94</b>
139	76.57	83.25	83.92	<b>81.24</b>	81.68	72.27	80.14	<b>78.03</b>
140	76.54	83.20	83.89	<b>81.21</b>	81.79	72.29	80.21	<b>78.09</b>
141	76.52	83.14	83.85	<b>81.17</b>	81.87	72.28	80.32	<b>78.16</b>
142	76.50	83.10	83.83	<b>81.14</b>	81.99	72.29	80.45	<b>78.25</b>
143	76.48	83.04	83.80	<b>81.11</b>	82.09	72.28	80.56	<b>78.31</b>
144	76.47	82.98	83.76	<b>81.07</b>	82.16	72.23	80.63	<b>78.34</b>
145	76.45	82.92	83.75	<b>81.04</b>	82.26	72.20	80.75	<b>78.41</b>
146	76.44	82.86	83.73	<b>81.01</b>	82.35	72.16	80.86	<b>78.46</b>
147	76.43	82.80	83.70	<b>80.98</b>	82.43	72.08	80.93	<b>78.48</b>
148	76.40	82.73	83.67	<b>80.93</b>	82.48	72.00	81.05	<b>78.51</b>
149	76.41	82.67	83.66	<b>80.92</b>	82.57	71.94	81.18	<b>78.56</b>
150	76.41	82.60	83.65	<b>80.88</b>	82.64	71.84	81.25	<b>78.58</b>



Figure 1 The carbon dioxide evaluation curve

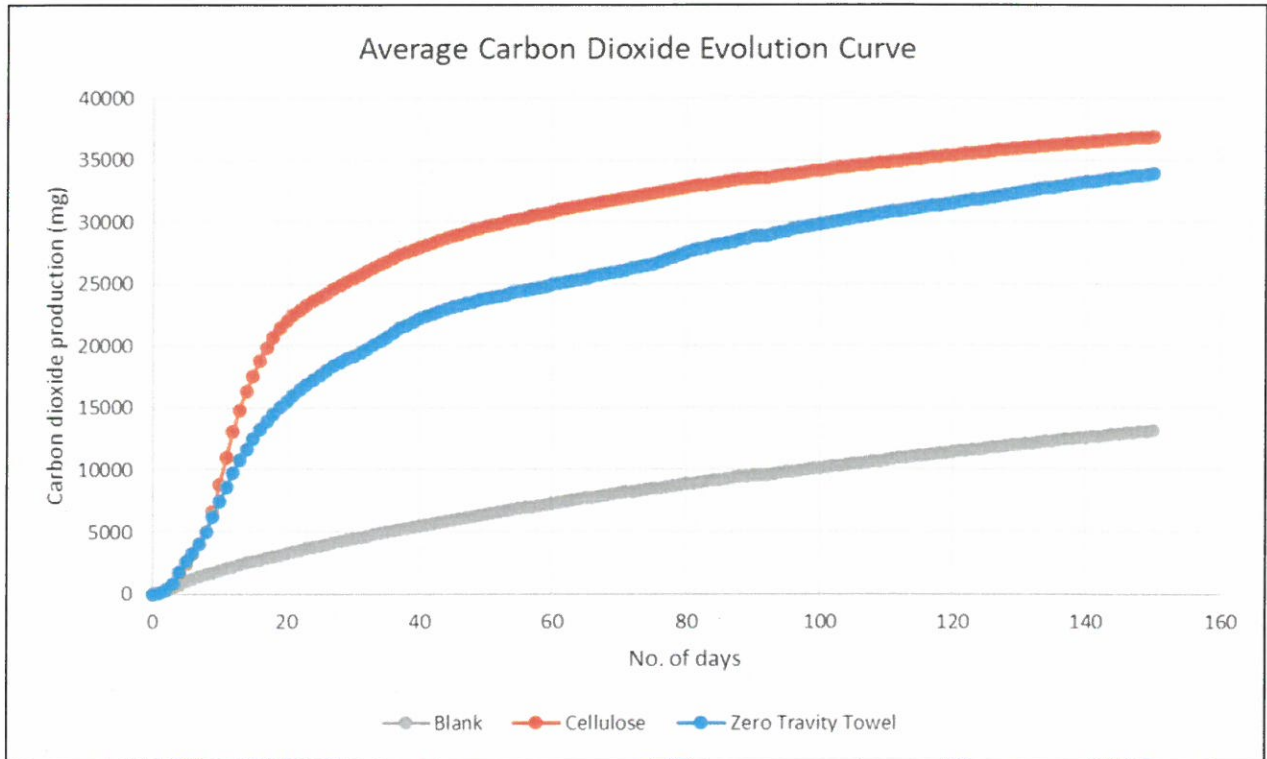


Figure 2 The average biodegradation curve

