

检测报告

编号 : GZIN2108046182PC_CN

日期 : 2021-12-31

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GZIN2108046182PC

客户名称: 浙江金亮塑料胶板有限公司

客户地址: 浙江省温州市瓯海区仙岩工业园宝成路 25 号

样品名称 : 生物醋酸胶粒

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测试开始时间 : 2021-08-11

测试结束时间 : 2021-12-16

测试结果 : 请见下页 (除另有特别说明外, 此报告结果仅对测试样品负责)

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测试项目:

最终需氧生物分解能力

测试方法:

ISO 14852: 2018

测试结果:

经检测, 在本试验条件下, 生物醋酸胶粒在试验第 120 天的生物分解率为 67.0%, 相对生物分解率为 95.2%。

1 试验目的

测定试验材料在黑暗和 $23^{\circ}\text{C}\pm 1^{\circ}\text{C}$ 条件下一定时间内的最终需氧生物分解能力。

2 试验原理

在一定体积的已接种的无机培养基中, 加入试验材料作为名义上唯一的有机碳源。在黑暗下, 用脱 CO_2 的空气以受控速率对试验培养基进行曝气。通过测定 CO_2 产生量来确定分解率。试验材料产生的 CO_2 数量用 ThCO_2 的百分率来表示 (经只含接种物的空白对照试验校正)。

3 试验系统

3.1 接种物

采集主要处理生活污水的净水厂曝气池中的新鲜活性污泥作为接种物, 用细滤网过滤去除粗糙颗粒和浮在表面上的杂质, 置于试验条件下曝气直至使用。试验时, 每个试验瓶中加入 20.0 mL 接种物, 使试验体系中接种物终浓度为 30 mg/L (以固体干重计)。试验体系中的菌落总数为 4.0×10^6 个/mL。

3.2 参比材料

名称	微晶纤维素
CAS No.	9004-34-6
来源	国药集团化学试剂有限公司

3.3 试验培养基

采用标准试验培养基, 配制方法详见 ISO 14852: 2018。

4 试验方法

4.1 试验组别

烧瓶 1、2、3 (试验材料组)	包含试验材料、接种物和试验培养基
烧瓶 4、5、6 (空白对照组)	包含接种物和试验培养基
烧瓶 7、8、9 (参比材料组)	包含参比材料、接种物和试验培养基
烧瓶 10 (毒性对照组)	包含试验材料、参比材料、接种物和试验培养基

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4.2 试验材料的添加

分别称取 396 mg 试验材料至烧瓶 1、2、3、10 内, 使试验溶液中试验材料的 TOC 含量为 100 mg/L。

4.3 参比材料的添加

分别称取 466 mg 参比材料至烧瓶 7、8、9、10 内, 使试验溶液中参比材料的 TOC 含量为 100 mg/L。

4.4 试验体系的配制

按照表 1, 在试验开始前一天, 往各烧瓶中分别加入相应体积的试验培养基以及 20.0 mL 接种物。对此接种混合液用脱 CO₂ 的空气进行曝气过夜。试验开始当天, 分别加入相应量的试验材料和参比材料, 各试验体系的终体积为 2000 mL。

表 1 各烧瓶溶液体系的组成

试验容器	受试物处理组	空白对照组	程序对照组	毒性对照组
	烧瓶 1、2、3	烧瓶 4、5、6	烧瓶 7、8、9	烧瓶 10
试验培养基(mL)	1980	1980	1980	1980
接种物初始浓度(g/L)	3.0	3.0	3.0	3.0
接种物(mL)	20.0	20.0	20.0	20.0
试验材料(mg)	396	—	—	396
参比材料(mg)	—	—	466	466
试验体系终体积(mL)	2000	2000	2000	2000
试验材料终浓度(mg/L)	198	—	—	198
来源于试验材料的 TOC(mg/L)	100	—	—	100
参比材料终浓度(mg/L)	—	—	233	233
来源于参比材料的 TOC(mg/L)	—	—	100	100
接种物终浓度(mg/L)	30	30	30	30
试验结束时 pH 值	7.55、7.52、7.54	7.56、7.58、7.53	7.57、7.59、7.57	7.60

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4.5 试验条件

将脱 CO₂ 的空气以每分钟 50 ~ 100 mL 的流量给试验悬浮液曝气并在 23°C±1°C 和黑暗条件下进行试验。

4.6 分析测定

- (1) 试验期间, 设定温度计记录试验温度。
- (2) 每个工作日检查并记录试验温度、搅拌及通气状况。
- (3) 试验期间, 以一定的时间间隔测定各烧瓶中的 CO₂ 产生量。
- (4) 在测定 CO₂ 时, 拆除直接连接在试验瓶的 NaOH 吸收瓶, 第二个吸收瓶顺序前移与试验瓶连接, 并在末端连接上 1 个新配制的 0.05 mol/L NaOH 溶液的吸收瓶。拆下的吸收瓶用 0.05008 mol/L 和 0.05009 mol/L 的 HCl 进行滴定, 以酚酞和溴甲酚绿-甲基红作指示剂。每次取 10 mL (0 ~ 35d) 或 20 mL (39~120 d) NaOH 吸收液进行滴定。
- (5) 试验结束时, 加酸前测试各瓶溶液的 pH 值。随后往各烧瓶中加入 1 mL 浓盐酸并通宵曝气以驱除试验悬浮液中的 CO₂, 测定所有吸收瓶中的 CO₂ 产生量。

5 数据统计

5.1 总有机碳 (TOC) 的测定结果

测得试验材料的 TOC 含量为 50.5%, 参比材料的 TOC 含量为 43.0%。

5.2 生物分解率的计算

本试验以 NaOH 溶液作吸收剂, 根据 HCl 滴定体积, 采用下式分别计算空白对照组和各试验组所产生的 CO₂ 量, 二者之差即为试验材料或参比材料生物分解产生的 CO₂ 量。

$$W = C \times (V_1 - V_2) \times 44$$

式中:

W——CO₂ 产生量, mg;

C——HCl 标准溶液的浓度, mol/L;

V₁——滴定 NaOH 吸收液的 HCl 体积, mL;

V₂——滴定未使用的 NaOH 的 HCl 体积, mL。



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生物分解百分率计算公式如下:

$$\text{分解率}(\%) = \frac{\text{试验组的CO}_2\text{产生量}(\text{mg}) - \text{空白对照组的CO}_2\text{产生量}(\text{mg})}{\text{初始加入的TOC}(\text{mg}) \times 3.67} \times 100$$

其中 3.67 是以碳转换成二氧化碳的系数 (44/12), 二氧化碳产生量为累积值。

同时绘制各试验组相对于时间的 CO₂ 产生量累积值曲线图和生物分解百分率曲线。

6 试验结果

试验第120天结束时, 空白对照组中的CO₂产生量为80.4 mg/L; 参比材料组的生物分解率为70.4%, 毒性对照组的生物分解率为45.6%。试验材料三个平行在试验120天结束时的生物分解率分别为66.4%、66.2%和68.3%, 平均值为67.0%。结果详见表2 ~ 3和图1 ~ 2。

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表 2 CO₂产生量测定结果, mg

时间 (天)	试验材料组							空白对照组			参比材料组			毒性 对照组
	瓶 1	瓶 2	瓶 3	瓶 4	瓶 5	瓶 6	均值	相对偏差 (%)			瓶 7	瓶 8	瓶 9	瓶 10
								瓶 4	瓶 5	瓶 6				
4	68.089	78.666	83.513	10.797	11.238	10.577	10.871	0.7	3.4	2.7	52.664	45.833	44.511	89.463
7	42.087	39.443	43.189	7.272	8.594	8.153	8.006	9.2	7.3	1.8	38.782	37.901	27.764	65.224
11	24.129	22.806	23.908	6.721	7.822	7.161	7.235	7.1	8.1	1.0	32.282	37.129	29.197	30.519
14	31.951	17.187	28.205	9.475	9.034	11.458	9.989	5.1	9.6	14.7	31.510	37.680	24.900	31.731
18	29.086	36.578	37.239	11.018	9.916	8.594	9.842	11.9	0.7	12.7	41.867	40.324	33.273	29.748
21	24.569	31.400	32.282	6.721	8.924	7.822	7.822	14.1	14.1	0	29.197	38.451	27.434	25.451
25	24.569	15.755	27.654	9.585	8.924	8.924	9.145	4.8	2.4	2.4	34.265	33.383	28.315	25.891
29	33.934	35.477	33.053	7.272	7.492	9.255	8.006	9.2	6.4	15.6	31.290	21.815	30.629	29.748
32	18.289	20.713	17.849	6.390	5.950	4.407	5.582	14.5	6.6	21.1	19.832	19.171	26.002	20.933
35	15.865	13.662	13.001	4.187	4.627	4.187	4.334	3.4	6.8	3.4	21.594	14.323	13.001	18.289
39	21.319	18.785	23.743	4.352	4.242	3.911	4.168	4.4	1.8	6.2	18.344	16.912	22.311	16.471
42	13.331	11.348	11.899	4.077	4.958	4.848	4.627	11.9	7.1	4.8	15.755	13.111	12.119	17.628
44	17.077	17.959	15.314	3.085	2.865	2.754	2.901	6.3	1.3	5.1	15.425	18.069	9.475	19.391
48	25.230	25.451	24.239	0.661	0.881	0.771	0.771	14.3	14.3	0	21.705	28.315	28.756	6.170
52	25.010	22.586	29.307	1.102	1.322	0.992	1.138	3.2	16.1	12.9	17.518	30.298	23.137	40.545
56	24.790	20.493	24.018	1.873	2.424	2.093	2.130	12.1	13.8	1.7	18.840	24.790	22.917	27.324
61	30.078	23.798	23.357	1.763	1.763	1.653	1.726	2.1	2.1	4.3	33.934	31.400	21.705	21.815
64	15.480	19.116	22.862	3.140	2.259	2.589	2.663	17.9	15.2	2.8	27.709	24.184	16.251	20.989

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表 2 CO₂产生量测定结果, mg (续)

时间 (天)	试验材料组							空白对照组			参比材料组			毒性 对照组
	瓶 1	瓶 2	瓶 3	瓶 4	瓶 5	瓶 6	均值	相对偏差 (%)			瓶 7	瓶 8	瓶 9	瓶 10
								瓶 4	瓶 5	瓶 6				
82	14.767	15.648	11.791	1.984	2.094	1.653	1.910	3.8	9.6	13.5	12.122	14.877	17.411	11.350
68	19.942	17.298	17.959	1.983	2.534	1.873	2.130	6.9	19.0	12.1	27.213	21.154	18.510	15.865
71	12.174	15.810	9.640	2.589	3.471	2.809	2.956	12.4	17.4	5.0	34.650	16.251	23.633	19.997
75	10.577	13.221	14.103	3.085	3.085	2.534	2.901	6.3	6.3	12.7	23.688	11.128	18.510	18.840
78	11.734	12.615	10.522	1.487	1.377	1.818	1.561	4.7	11.8	16.5	18.234	11.734	20.548	14.268
85	8.651	8.981	11.626	3.471	4.463	3.251	3.728	6.9	19.7	12.8	11.846	10.744	12.067	21.103
89	14.711	16.364	11.626	3.361	4.132	4.794	4.096	17.9	0.9	17.0	10.965	10.744	15.042	25.180
90	3.581	4.243	1.267	0.937	0.937	1.157	1.010	7.3	7.3	14.5	4.353	3.361	4.132	9.753
92	4.188	4.408	5.840	3.086	2.975	3.526	3.196	3.4	6.9	10.3	5.951	5.400	4.298	10.138
96	5.179	5.290	3.857	2.975	2.975	2.204	2.718	9.5	9.5	18.9	2.865	3.747	2.094	10.138
99	12.177	9.863	7.989	3.251	3.030	3.141	3.141	3.5	3.5	0	11.185	6.777	9.422	18.458
106	15.483	11.626	13.058	10.304	10.855	10.193	10.450	1.4	3.9	2.5	12.177	12.948	13.609	36.751
113	13.775	17.081	10.799	9.697	9.697	8.926	9.440	2.7	2.7	5.4	15.869	15.979	12.012	40.002
120	15.979	23.362	17.632	9.918	11.681	10.138	10.579	6.2	10.4	4.2	19.505	20.166	27.219	41.324



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表 3 生物分解率, %

时间 (天)	试验材料组					参比材料组					毒性对照组		
	瓶 1	瓶 2	瓶 3	均值	相对 分解率	瓶 7	瓶 8	瓶 9	均值	相对偏差 (%)			瓶 10
										瓶 7	瓶 8	瓶 9	
4	7.8	9.2	9.9	9.0	179.0	5.7	4.8	4.6	5.0	13.6	5.0	8.6	5.4
7	12.4	13.5	14.7	13.5	156.4	9.9	8.8	7.3	8.7	14.1	2.0	16.1	9.3
11	14.7	15.6	17.0	15.8	129.8	13.3	12.9	10.3	12.2	9.4	6.2	15.6	10.8
14	17.7	16.6	19.4	17.9	119.0	16.2	16.7	12.3	15.1	7.7	10.7	18.4	12.3
18	20.4	20.3	23.2	21.3	112.1	20.6	20.8	15.5	19.0	8.5	9.8	18.4	13.7
21	22.6	23.5	26.5	24.2	108.9	23.5	25.0	18.2	22.2	5.8	12.5	18.3	14.9
25	24.7	24.4	29.0	26.0	102.8	26.9	28.3	20.8	25.3	6.3	11.7	18.0	16.0
29	28.3	28.1	32.4	29.6	105.6	30.1	30.2	23.9	28.0	7.3	7.6	14.9	17.5
32	30.0	30.2	34.1	31.4	103.9	32.0	32.0	26.6	30.2	6.0	6.0	11.9	18.5
35	31.6	31.5	35.3	32.8	102.8	34.4	33.4	27.8	31.9	7.9	4.8	12.7	19.5
39	33.9	33.4	38.0	35.1	103.5	36.3	35.1	30.3	33.9	7.1	3.6	10.7	20.3
42	35.1	34.4	39.0	36.1	102.8	37.8	36.3	31.3	35.1	7.7	3.3	10.9	21.2
44	37.0	36.4	40.6	38.0	103.6	39.5	38.4	32.2	36.7	7.7	4.5	12.3	22.3
48	40.4	39.8	43.8	41.3	102.9	42.4	42.1	36.0	40.2	5.5	4.8	10.3	22.7
52	43.6	42.7	47.7	44.7	103.3	44.6	46.1	39.0	43.2	3.2	6.6	9.8	25.4
56	46.7	45.2	50.7	47.5	103.4	46.9	49.2	41.8	46.0	2.0	7.0	9.0	27.1
61	50.6	48.2	53.6	50.8	102.2	51.3	53.2	44.6	49.7	3.2	7.1	10.3	28.5

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表 3 生物分解率, % (续)

时间 (天)	试验材料组					参比材料组				毒性对照组			
	瓶 1	瓶 2	瓶 3	均值	相对 分解率	瓶 7	瓶 8	瓶 9	均值	相对偏差 (%)			瓶 10
										瓶 7	瓶 8	瓶 9	
64	52.3	50.4	56.4	53.0	101.2	54.7	56.1	46.4	52.4	4.4	7.1	11.5	29.7
68	54.7	52.5	58.5	55.3	100.1	58.1	58.7	48.7	55.2	5.4	6.5	11.8	30.7
71	56.0	54.3	59.4	56.6	97.3	62.4	60.6	51.5	58.2	7.4	4.1	11.5	31.8
75	57.0	55.7	61.0	57.9	96.2	65.3	61.7	53.6	60.2	8.5	2.5	10.9	32.9
78	58.4	57.2	62.2	59.3	95.2	67.5	63.1	56.2	62.3	8.5	1.3	9.8	33.8
85	60.8	59.8	64.6	61.7	94.8	70.0	65.8	59.4	65.1	7.6	1.1	8.7	35.6
89	62.3	61.4	65.6	63.1	95.3	71.0	66.7	60.9	66.2	7.2	0.7	8.0	37.0
90	62.6	61.9	65.7	63.4	95.2	71.4	67.0	61.3	66.6	7.3	0.6	7.9	37.6
92	62.8	62.0	66.0	63.6	95.1	71.8	67.3	61.5	66.9	7.4	0.7	8.0	38.1
96	63.1	62.4	66.2	63.9	95.5	71.8	67.4	61.4	66.9	7.4	0.8	8.2	38.6
99	64.3	63.3	66.8	64.8	95.7	72.9	67.9	62.3	67.7	7.7	0.3	8.0	39.7
106	65.0	63.5	67.2	65.2	95.9	73.2	68.3	62.7	68.0	7.5	0.3	7.9	41.4
113	65.6	64.5	67.4	65.8	95.8	74.0	69.2	63.0	68.8	7.7	0.6	8.3	43.5
120	66.4	66.2	68.3	67.0	95.2	75.3	70.5	65.3	70.4	7.0	0.2	7.2	45.6

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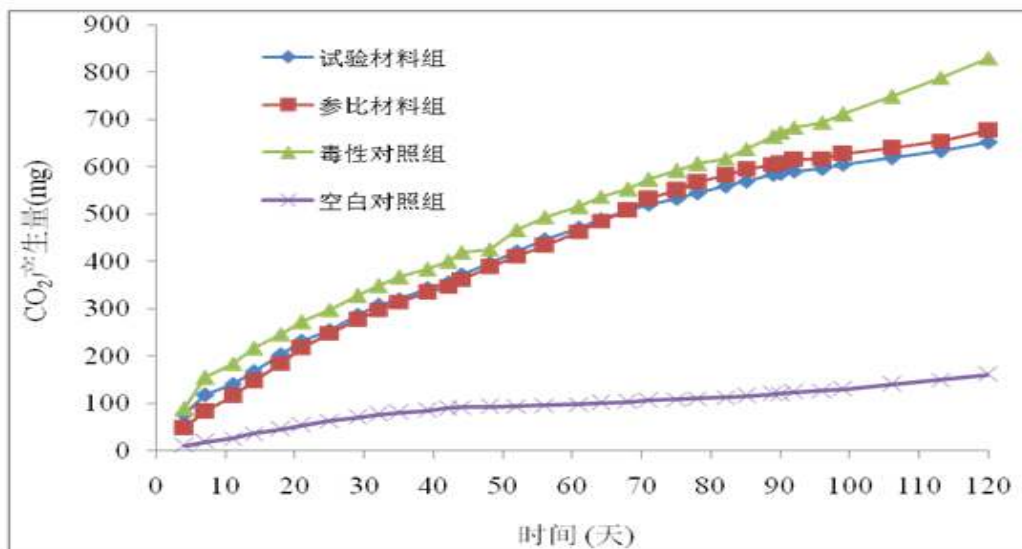


图 1 CO₂ 产生量（累积值）变化曲线图

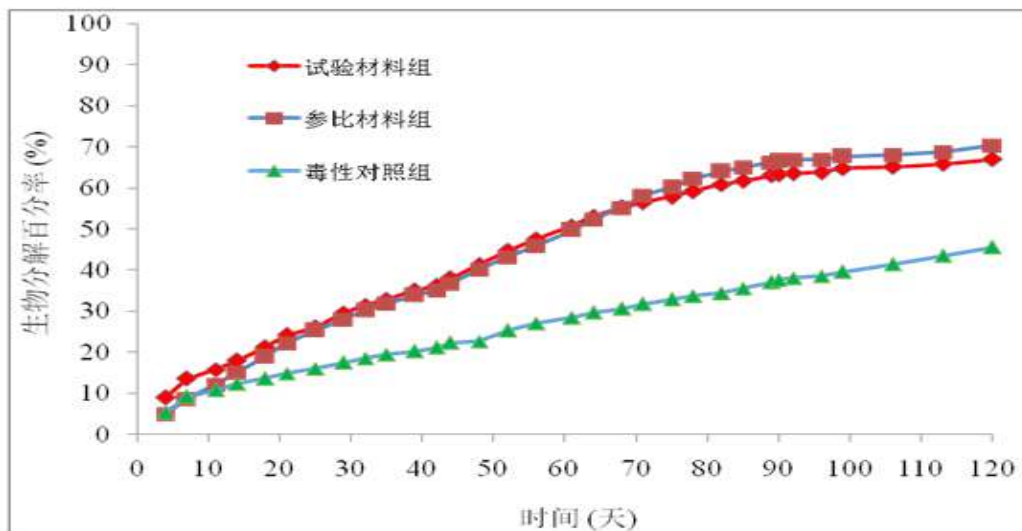


图 2 分解百分率变化曲线图

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7 试验有效性

- 试验结束时, 参比材料组的生物分解百分率大于 60%。
- 试验结束时, 参比材料组的生物分解百分率在平行试验间的相对偏差小于 20%。
- 试验结束时, 空白对照组的 CO₂ 产生量小于 90 mg/L。
- 试验期间, 空白对照组的 CO₂ 产生量在平行试验间的相对偏差均小于 20%。

以上指标均表明本次试验结果是有效的。

8 结果

在本试验条件下, 生物醋酸胶粒在试验 120 d 结束时的生物分解率为 67.0%, 相对分解率为 95.2%。

备注:

1. 以上测试项目是由 SGS 集团以外的实验室执行的。
2. 此测试报告是报告编号 GZIN2108046182PC 的中文译本, 中英文版本如有歧义, 概以英文版为准。



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