

TEST REPORT

No. : GZMR231003009701

Date : Feb 22, 2024

Page: 1 of 21



CUSTOMER NAME: GUANGDONG YUANCHANG ZERO CARBON ECOLOGICAL ENVIRONMENTAL PROTECTION TECHNOLOGY CO., LTD
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Sample Name : CUTLERY SET
Product or Lot No. : 20231011

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

SGS Ref. No. : GZF23-0010915
Date of Receipt : Oct 17, 2023
Testing Start Date : Oct 17, 2023
Testing End Date : Feb 22, 2024
Test result(s) : For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Cathy Peng
Authorized signatory



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TEST REPORT

No. : GZMR231003009701

Date : Feb 22, 2024

Page: 2 of 21

Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Degree of disintegration	ISO 16929:2021	See result	/
2	Ecotoxicity	ISO 17088:2021 Section 6.4.3 & OECD 208-2006	See result	/

Note: Pass : Meet the requirements;
 Fail : Does not meet the requirements;
 / : Not Apply to the judgment.

Original Sample Photo:



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TEST REPORT

No. : GZMR231003009701

Date : Feb 22, 2024

Page: 3 of 21

1. Test Item: Degree of disintegration

Sample Description: Finished product

Test Method: ISO 16929:2021

Test Condition:

Sample size: Sheet: 5cm×5cm & Powder

Number of composting bins: 4

Composting bins volume: 180L

Source of biomass waste: Self-made

Test period: 84 days

Test date: 2023-10-31~2024-01-23

Test Result:

Sample	Disintegration degree (See note 1)
Test material	100%

Validity criteria:	Result	Determine
Composting temperature requirements (See note 2)	Comply with the requirements (See table1 & figure 1)	Test is valid
The pH increases to a value above 7 during the test and does not fall below 5	Comply with the requirements (See table2 & figure 2)	
The biowaste compost of the blank control has a maturity (Rottegrad) of IV to V after 12 weeks	V	



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TEST REPORT

No. : GZMR231003009701

Date : Feb 22, 2024

Page: 4 of 21

Original data:

Table 1: Temperature of composting during the testing process

Days	Blank #1(°C)	Blank #2(°C)	Test material #1(°C)	Test material #2(°C)
1	45.2	45.9	48.1	47.1
2	63.7	64.8	67.5	65.3
3	63.8	63.9	68.6	66.7
4	62.9	63.2	68.2	66.4
5	63.3	62.8	67.8	66.4
6	63.4	62.3	67.2	66.0
7	63.0	62.3	67.3	65.8
8	61.8	60.7	66.4	65.2
9	60.0	60.3	65.1	64.1
10	59.9	59.8	65.9	64.3
11	59.3	59.5	64.3	64.3
12	59.2	59.1	63.7	63.9
13	58.8	59.4	63.4	63.4
14	58.8	58.6	63.4	61.9
15	58.4	59.0	61.6	61.3
16	59.0	58.8	61.7	61.5
17	59.3	58.9	61.8	61.7
18	58.5	58.3	61.6	61.1
19	58.6	58.1	61.0	61.3
20	58.5	58.3	61.1	60.8
21	58.5	58.4	61.2	60.5
22	58.6	58.1	60.9	60.7
23	58.5	57.9	60.6	60.5
24	58.4	57.7	60.4	60.2
25	58.2	57.1	60.1	59.6
26	58.3	56.5	59.9	59.3



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TEST REPORT

No. : GZMR231003009701

Date : Feb 22, 2024

Page: 5 of 21

Days	Blank #1(°C)	Blank #2(°C)	Test material #1(°C)	Test material #2(°C)
27	58.4	56.2	59.8	59.5
28	58.6	55.3	59.8	59.4
29	57.9	55.2	59.0	58.3
30	57.9	54.6	58.7	58.1
31	58.0	54.5	58.7	58.0
32	57.8	54.8	58.6	57.9
33	57.7	54.9	57.8	57.9
34	58.0	55.1	57.6	58.1
35	57.7	55.0	57.5	57.8
36	57.6	54.7	57.5	57.8
37	57.6	54.6	57.0	57.6
38	57.8	54.9	56.5	57.6
39	57.8	55.2	56.7	57.7
40	58.1	54.8	56.4	57.7
41	58.0	54.9	56.9	57.2
42	57.7	54.7	56.7	56.9
43	57.1	55.1	56.8	56.3
44	56.5	55.1	56.6	55.1
45	56.2	55.4	55.4	54.8
46	55.6	54.9	54.9	54.2
47	54.4	54.3	54.3	53.9
48	53.8	53.1	53.5	53.3
49	52.9	51.7	53.0	52.7
50	52.1	51.6	51.6	52.1
51	51.4	51.1	51.1	52.0
52	51.2	50.9	50.4	51.4
53	50.8	50.6	49.9	50.6
54	50.5	49.9	49.4	50.2



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TEST REPORT

No. : GZMR231003009701

Date : Feb 22, 2024

Page: 6 of 21

Days	Blank #1(°C)	Blank #2(°C)	Test material #1(°C)	Test material #2(°C)
55	49.7	49.6	49.0	49.8
56	48.6	49.3	48.7	49.2
57	47.8	48.5	48.5	48.7
58	47.5	48.1	48.1	48.2
59	46.8	47.7	47.9	48.5
60	46.2	47.8	47.7	47.9
61	45.9	47.1	47.6	47.5
62	45.7	46.2	47.6	47.4
63	45.6	46.4	46.9	47.2
64	45.5	46.1	46.8	46.9
65	45.2	45.8	46.8	46.7
66	44.8	45.3	46.7	46.5
67	44.4	45.1	46.7	45.9
68	43.9	44.7	45.6	45.8
69	43.4	44.5	45.1	44.9
70	43.1	44.1	44.0	44.2
71	43.3	44.0	43.5	43.8
72	43.1	43.7	44.4	43.9
73	42.8	43.5	44.2	43.5
74	42.4	43.5	44.2	43.9
75	42.0	43.5	44.0	43.9
76	41.8	43.0	43.9	43.2
77	41.4	42.7	43.4	43.1
78	41.0	42.8	43.0	42.8
79	40.7	42.3	42.7	41.9
80	40.8	42.1	42.2	41.8
81	40.9	42.0	41.9	41.4
82	40.8	41.8	41.8	41.2



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TEST REPORT

No. : GZMR231003009701

Date : Feb 22, 2024

Page: 7 of 21

Days	Blank #1(°C)	Blank #2(°C)	Test material #1(°C)	Test material #2(°C)
83	40.4	41.9	41.4	41.1
84	40.1	40.5	41.2	40.7

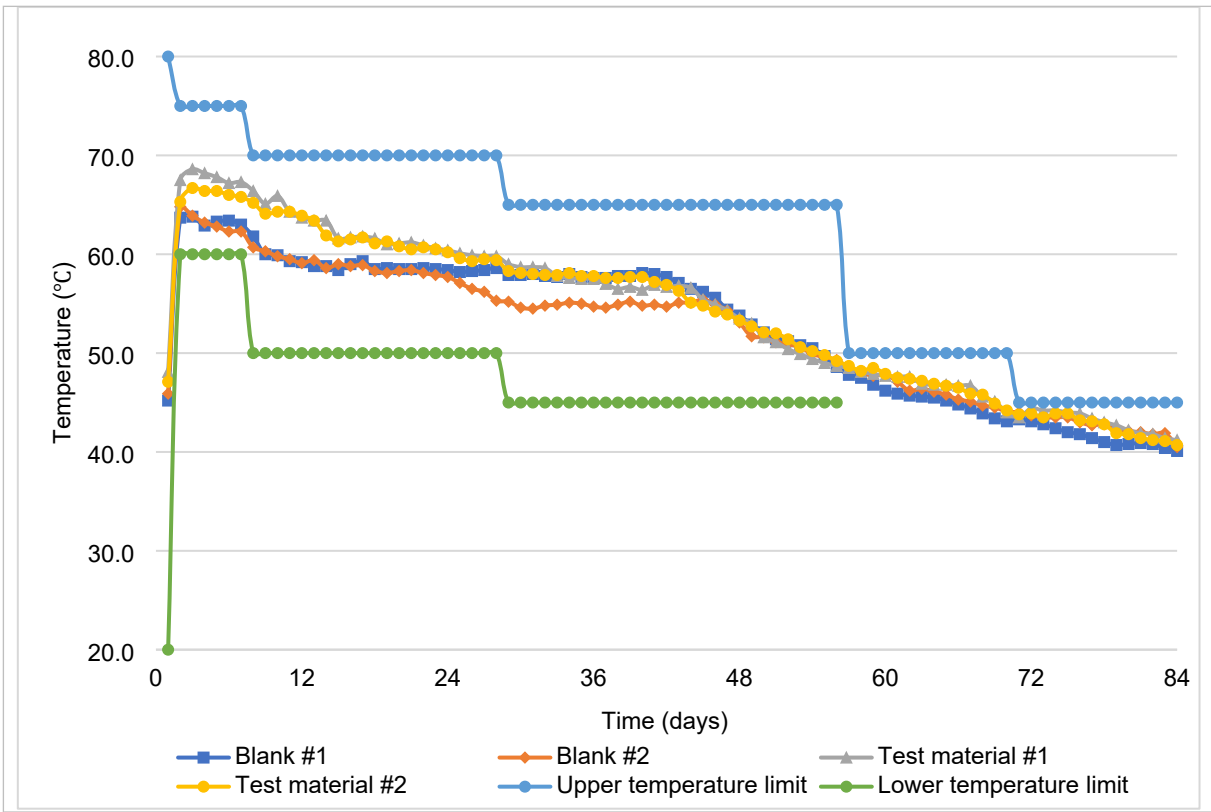


Figure 1: Temperature-time curve of composting during the testing process



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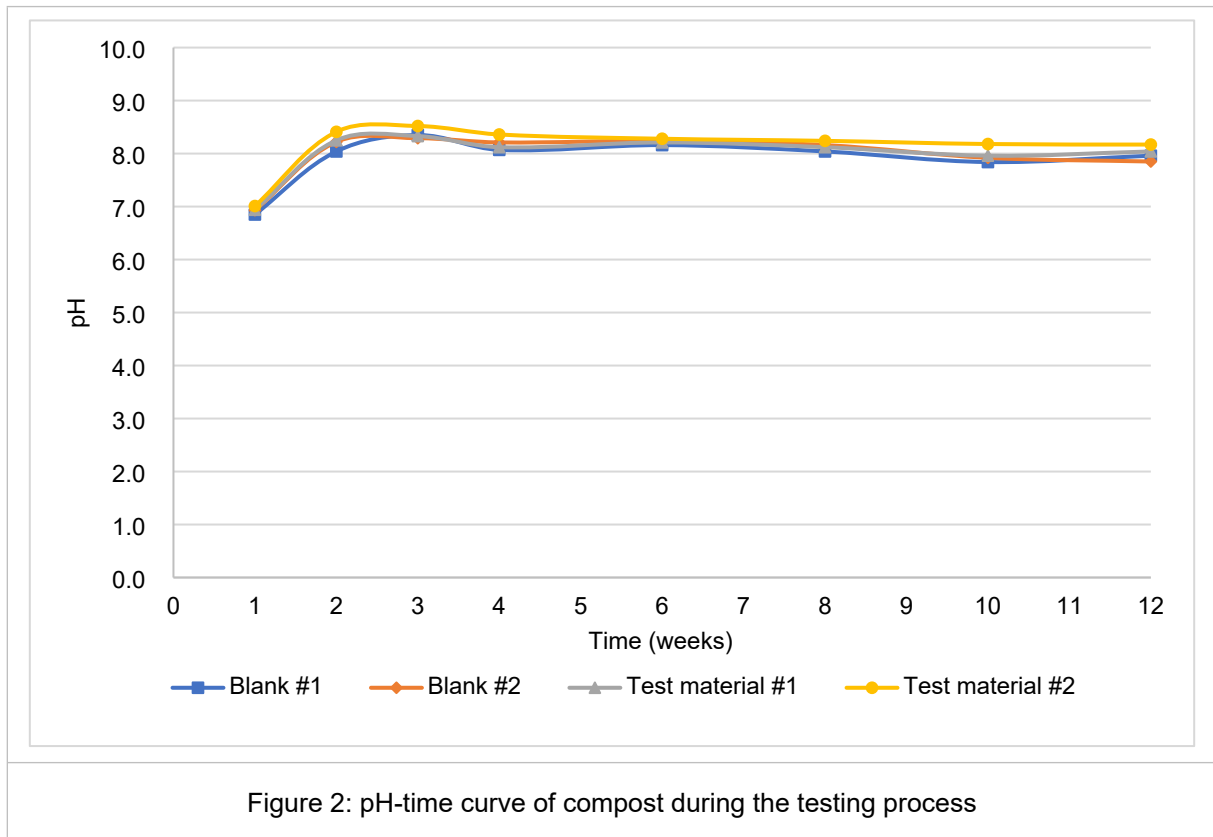
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Date : Feb 22, 2024

Page: 8 of 21

Table 2: pH of composting during the testing process

Weeks	Blank #1	Blank #2	Test material #1	Test material #2
1	6.85	6.93	6.94	7.01
2	8.04	8.22	8.25	8.41
3	8.35	8.29	8.33	8.52
4	8.07	8.21	8.12	8.36
6	8.16	8.24	8.21	8.28
8	8.04	8.16	8.12	8.24
10	7.84	7.92	7.96	8.18
12	7.96	7.85	8.04	8.17



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No. : GZMR231003009701

Date : Feb 22, 2024

Page: 9 of 21

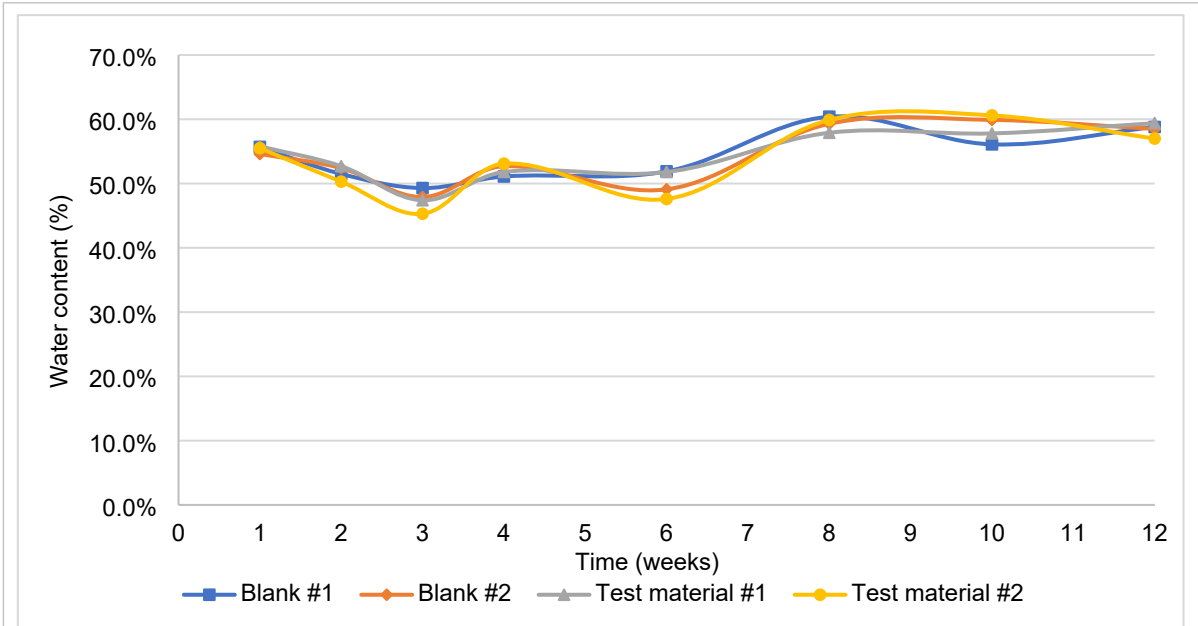
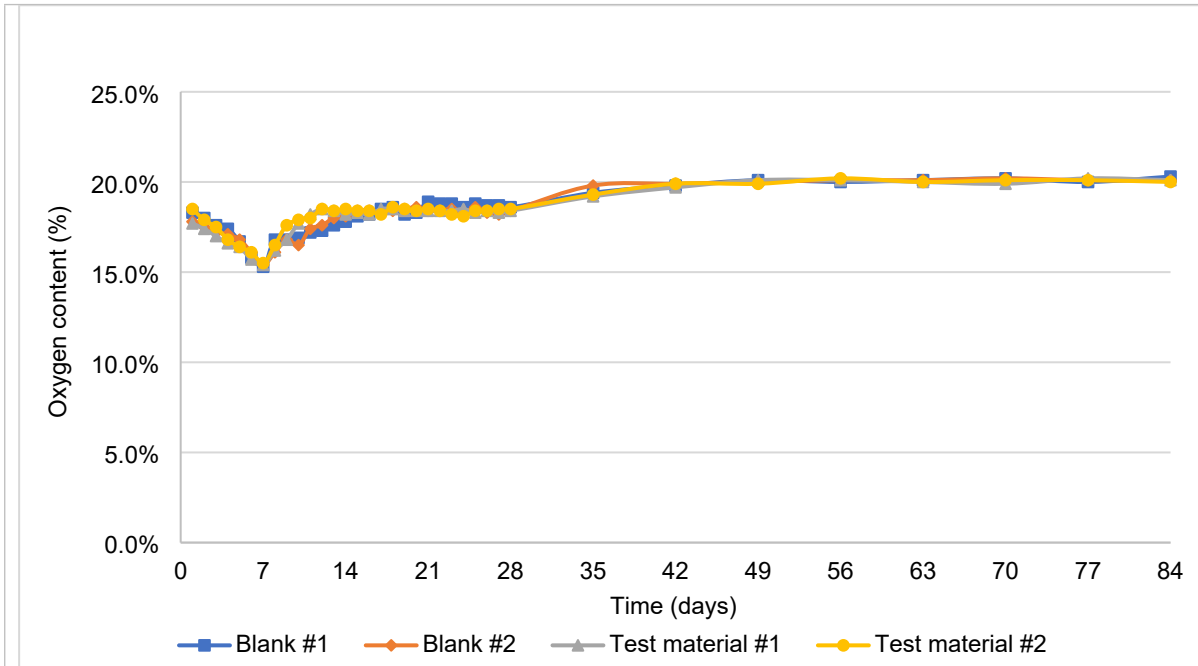


Figure 3: Water content-time curve of compost during the testing process



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TEST REPORT

No. : GZMR231003009701

Date : Feb 22, 2024

Page: 10 of 21

Figure 4: Oxygen content time-curve of compost during the testing process

Table 3: Results of disintegration degree

Test material	Before testing			After testing	Disintegration degree D(%)
	Original weight (g)	Dry weight content (%)	Dry weight (g)	Dry weight (g)	
#1	207.04	96.6	200.00	0	100%
#2	207.04		200.00	0	100%

Table 4: Composting parameters after testing

Composting parameters	Blank		Test material	
	#1	#2	#1	#2
Remaining compost weight (Kg)	13.8	13.5	14.2	13.9
Total dry solid content (%)	41.2	41.5	40.6	43.0
Volatile solid content (%)	52.0	49.9	63.9	52.9
pH	8.01	7.98	8.11	8.25
Total nitrogen (mg/Kg)	1.52×10 ⁴	1.50×10 ⁴	1.48×10 ⁴	2.39×10 ⁴
NH ₄ ⁺ -N (mg/Kg)	328	9	54	247
NO _x -N (mg/Kg)	0.3	0.3	0.2	0.3

Table 5: Maturity (Rottegrad) of compost after testing

Test serial	Maximum temperature of composting during self heating test (°C)	Rotting degree
Blank #1	22.31	V
Blank #2	22.26	V
Test material #1	22.50	V
Test material #2	22.51	V



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TEST REPORT

No. : GZMR231003009701

Date : Feb 22, 2024

Page: 11 of 21

Note:

1. Disintegration degree D (%) = [Dry weight of sample before test (g) – Dry weight of sample after test (g)] / Dry weight of sample before test (g) × 100%.

2. According to section 6.2.2.3 a) of ISO 16929:2021, the temperature requirements are as follows:

Time (days)	Composting temperature (°C)
2-7	60~75
8-28	55 (±5) ~65 (±5)
29-56	50 (±5) ~60 (±5)
57-70	<50
71-84	<45

3. Biowaste parameters:

Wet weight (Kg)	Total dry solids (%)	Volatile solids(%)	The ratio between organic carbon and nitrogen	pH	Wood powder content (%)	Size
20.0	46.9	74.4	35.2	6.17	18.1%	<50mm



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TEST REPORT

No. : GZMR231003009701

Date : Feb 22, 2024

Page: 12 of 21

Test Photo:



Before Test



4 weeks



8 weeks



After Test



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TEST REPORT

No. : GZMR231003009701

Date : Feb 22, 2024

Page: 13 of 21

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Electronic balance	MS1602TS/02	GZMR-AG-E281	2023-03-20	2024-03-19
Electronic balance	BPS15K05	GZMR-AG-E107-04	2023-06-15	2024-06-14
Electronic balance	JJ2000B	GZMR-AG-E308	2023-04-23	2024-04-22
Electronic balance	XPR504S/AC	GZMR-AG-E295	2023-09-13	2024-09-12
Digital Thermometer	FLUKE51 II	GZMR-PL-E013-02	2023-04-26	2024-04-25
pH Meter	S220	GZMR-AG-E040-07	2023-04-21	2024-04-20
Multi-Thermocouple temperature recorder	NAPUI130T-32	GZMR-AG-E320	2023-09-21	2024-09-20
Oven	UF110	GZMR-PL-E234	2023-04-20	2024-04-19
High Temperature Furnace	F0610C	GZMR-PL-E058-07	2023-08-11	2024-08-10
Organic element analyzer	Flash SMART	GZMR-PL-E331	2023-05-16	2024-05-15
O ₂ Detector	MS400	GZMR-AG-E266-02	2023-06-27	2024-06-26
Screen Mesh	2mm	GZMR-AG-E021-04	2023-09-05	2024-09-04
Screen Mesh	5mm	GZMR-AG-E021-05	2023-06-19	2024-06-18
Screen Mesh	10mm	GZMR-AG-E021-06	2023-06-19	2024-06-18



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TEST REPORT

No. : GZMR231003009701

Date : Feb 22, 2024

Page: 14 of 21

2. Test Item: Ecotoxicity

Sample Description: Finished products

Test Method: ISO 17088:2021 Section 6.4.3 & OECD 208-2006

Test Condition:

Plant species: Monocotyledonous plant: corn, dicotyledonous plant: soybean

Numbers of planting containers: 24

Source of compost: Composting after sample disintegration test

Soil source: natural loess

Germination: Light-free

Growth period: Temperature: (22±10)°C, Humidity: (75±25) RH%, Photoperiod: 16h/day,

Intensity of illumination: (350±50) μE/m²/s

Test Result:

Plants	Mixing rates	Relative germination rate (See Note 1)	Biomass ratio (See Note 1)
Corn	Sample compost 25%	101.1	94.4
	Sample compost 50%	98.2	94.5
Soybean	Sample compost 25%	96.3	93.6
	Sample compost 50%	96.2	94.9

Validity criteria:	Result	Determine
The germination rate of the control group should be at least 70%	>70% (See Table 2)	Test is valid
The mean survival of emerged control seedlings is at least 90%	100% (See Table 2)	
The seedlings do not exhibit visible phytotoxic effects and the plants exhibit only normal variation in growth and morphology for that particular species	not exhibit visible phytotoxic effects (See Test photos)	
The growth conditions of the same variety of plants are consistent	Yes	



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TEST REPORT

No. : GZMR231003009701

Date : Feb 22, 2024

Page: 15 of 21

Original data:

Table 1: Test Records:

Plants	Mixing rates	Replication	Numbers of seeds	Germination number	Numbers of surviving plants	Dry weight after testing/g
Corn	Blank compost 25%	1#	100	93	93	22.32
		2#	100	94	94	22.44
		3#	100	91	91	21.78
	Blank compost 50%	1#	100	92	92	21.25
		2#	100	95	95	21.76
		3#	100	97	97	22.12
	Sample compost 25%	1#	100	92	92	20.79
		2#	100	94	94	21.53
		3#	100	95	95	21.19
	Sample compost 50%	1#	100	94	94	20.59
		2#	100	91	91	19.75
		3#	100	94	94	20.12
Soybean	Blank compost 25%	1#	100	91	91	18.11
		2#	100	92	92	18.68
		3#	100	89	89	17.44
	Blank compost 50%	1#	100	88	88	16.46
		2#	100	86	86	16.34
		3#	100	90	90	16.83
	Sample compost 25%	1#	100	87	87	16.27
		2#	100	86	86	15.91
		3#	100	89	89	16.73
	Sample compost 50%	1#	100	87	87	15.31
		2#	100	90	90	16.38
		3#	100	85	85	15.05



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TEST REPORT

No. : GZMR231003009701

Date : Feb 22, 2024

Page: 16 of 21

Table 2: Calculation results:

Plants	Mixing rates	Replication	Germination rate/%	Survival rate/%	Average dry shoot weight/g	Average germination rate/%	Average survival rate/%	Average of dry shoot weight/g
Corn	Blank compost 25%	1#	93	100	0.24	93	100	0.24
		2#	94	100	0.24			
		3#	91	100	0.24			
	Blank compost 50%	1#	92	100	0.23	95	100	0.23
		2#	95	100	0.23			
		3#	97	100	0.23			
	Sample compost 25%	1#	92	100	0.23	94	100	0.23
		2#	94	100	0.23			
		3#	95	100	0.22			
	Sample compost 50%	1#	94	100	0.22	93	100	0.22
		2#	91	100	0.22			
		3#	94	100	0.21			
Soybean	Blank compost 25%	1#	91	100	0.20	91	100	0.20
		2#	92	100	0.20			
		3#	89	100	0.20			
	Blank compost 50%	1#	88	100	0.19	88	100	0.19
		2#	86	100	0.19			
		3#	90	100	0.19			
	Sample compost 25%	1#	87	100	0.19	87	100	0.19
		2#	86	100	0.19			
		3#	89	100	0.19			
	Sample compost 50%	1#	87	100	0.18	87	100	0.18
		2#	90	100	0.18			
		3#	85	100	0.18			



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TEST REPORT

No. : GZMR231003009701

Date : Feb 22, 2024

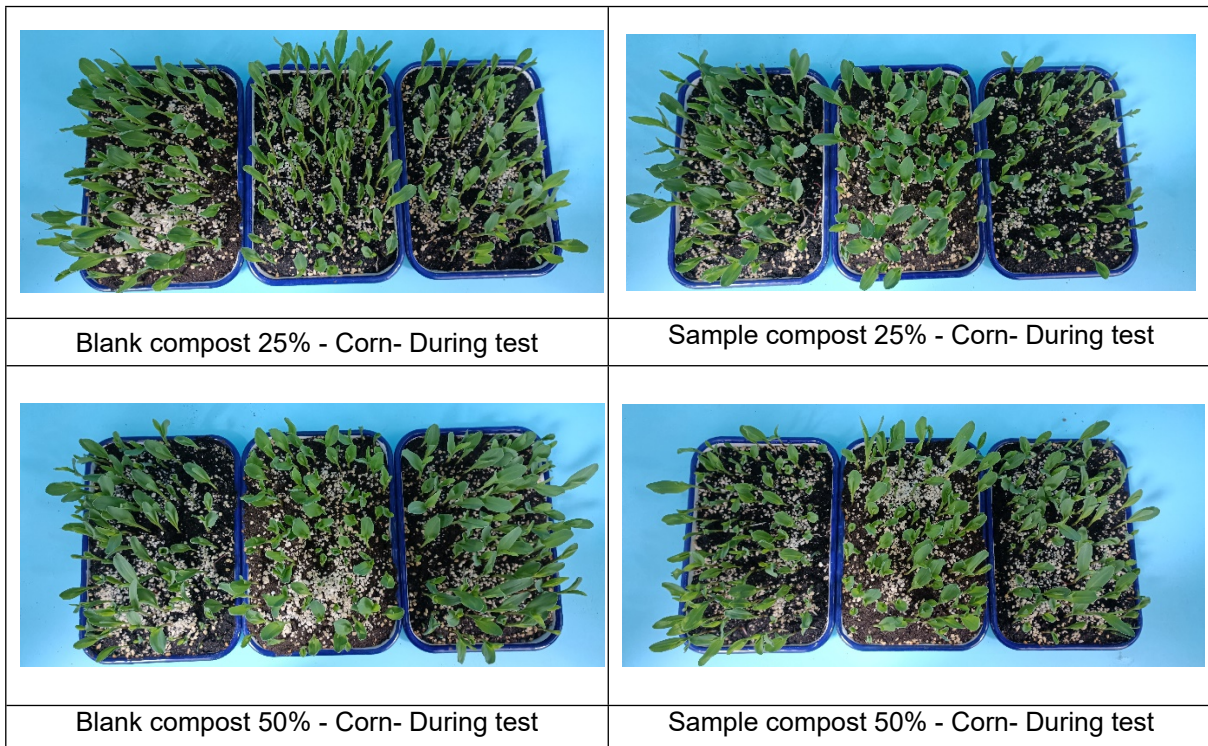
Page: 17 of 21

Note:

- Germination rate/% = Germination number / Number of seeds × 100;
 Relative germination rate/% = Germination rate of sample compost / Germination rate of corresponding blank compost × 100;
 Biomass ratio/% = Average of dry shoot weight of sample compost / Average of dry shoot weight of corresponding blank compost × 100.
- Compost and soil parameters:

Compost / Soil	Total dry solid content (%)	Volatile solid content (%)	pH
Blank compost	41.2	52.0	7.96
Sample compost	40.6	63.9	8.01
Natural loess	79.7	19.5	5.45

Test photos:



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TEST REPORT

No. : GZMR231003009701

Date : Feb 22, 2024

Page: 18 of 21

	
<p>Blank compost 25% - Soybean - During test</p>	<p>Sample compost 25% - Soybean- During test</p>
	
<p>Blank compost 50% - Soybean During test</p>	<p>Sample compost 50% - Soybean During test</p>



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TEST REPORT

No. : GZMR231003009701

Date : Feb 22, 2024

Page: 19 of 21



Blank compost 25% - Corn - After test



Sample compost 25% - Corn - After test



Blank compost 50% - Corn - After test



Sample compost 50% - Corn - After test



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TEST REPORT

No. : GZMR231003009701

Date : Feb 22, 2024

Page: 20 of 21

	
<p>Blank compost 25% - Soybean - After test</p>	<p>Sample compost 25% - Soybean - After test</p>
	
<p>Blank compost 50% - Soybean - After test</p>	<p>Sample compost 50% - Soybean - After test</p>



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TEST REPORT

No. : GZMR231003009701

Date : Feb 22, 2024

Page: 21 of 21

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Electronic balance	MS1602TS/02	GZMR-AG-E281	2023-03-20	2024-03-19
Electronic balance	XPR504S/AC	GZMR-AG-E295	2023-09-13	2024-09-12
Oven	UF110	GZMR-PL-E234	2023-04-20	2024-04-19
Oven	UF110	GZMR-AG-E286	2023-02-23	2024-02-22
High Temperature Furnace	F0610C	GZMR-PL-E058-07	2023-08-11	2024-08-10
pH Meter	S220	GZMR-AG-E040-07	2023-04-21	2024-04-20

***** End of report*****



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