

Test Report 測試報告

Number 報告號碼 : TWNC01143411

: Jan 09, 2023

Issue Date 報告發行日期

Applicant 申請廠商: Simpla Biotech Co., Ltd.

新浦樂生化科技股份有限公司 No. 50, Neixi Rd., Luzhu Dist., Taoyuan City 338, Taiwan (R.O.C.)

: Dec 28, 2022

桃園市蘆竹區內溪路 50 號

Sample Description 樣品敘述:

One (1) Group of Submitted Samples Said To Be:

壹(一)件所送檢樣品據指(各)為: Name of Sample : 湯麵碗

樣品名稱

Material : PLA

材質

Country of Origin : Taiwan 原產地 台灣

Date Sample Received

樣品收到日期

Date Test Started : Dec 28, 2022

開始測試日期

Test Conducted 測試內容:

Tests were conducted by applicant's request, for details please refer to attached pages.

依據客戶要求執行測試,結果請參考附頁。

Authorized By 審核者:

On behalf of Intertek Testing Services

Taiwan Limited

全國公證檢驗股份有限公司

Matt Wang 王政雄

Director 協理

Signed by 報告簽署人:

Thomas Chou 周世民 Manager 經理

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(一) Drop Test 落摔測試

As per applicant's request with reference to ASTM F963 Clause 8.7.

依據廠商要求參考 ASTM F963 第 8.7 章節進行測試。

For all ages; no age grading was specified on product or packaging by applicant, hence the sample was subjected to the most stringent abuse test conditions.

測試年齡: 不分年齡; 申請人沒有在產品或包裝上指定年齡分級,因此樣品經受了最嚴格的濫用測試條件。

Test method 測試方法:

10 drops at 137 cm. 137公分高度落下 10 次。

Test Result 測試結果:

- 1. No visible damage is found after test. 測試後沒有發現可見的損壞或變化。
- 2. After performing drop testing, neither sharp point/sharp edge nor small part was found. 測試後樣品上無發現尖銳點、尖銳邊以及小物件。

(二) Microwave safe Test 微波爐安全測試

Test method 測試方法:

- 1. Fill test sample with distilled water to 80% the volume capacity 將樣品容量之80%的水裝入測試樣品中。
- 2. Place filled product in the center of a standard microwave oven at 1000W ten times, run at high setting for 5 minutes. 以微波爐瓦數 1000 瓦執行測試,每次 5 分鐘,共測試 10 次。

Test Result 測試結果:

No visible damage or color change is found after test.

測試後,樣品上未發現可見變化。







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Test Conducted 測試內容:

Labeling Conformance of Heat Tolerance of Plastic Food Utensils, Containers and Packages (三) 塑膠類食品器具容器包裝之耐熱溫度符合性

Method 檢驗方法 : MOHW Food No. 1061902219 Announcement (11/13/2017) Methods of Test for Labeling Conformance of Heat Tolerance of Plastic Food Utensils, Containers and Packages

(MOHWU0023.02).

衛生福利部 106 年 11 月 13 日衛授食字第 1061902219 號公告修正塑膠類食品器具容器包裝

之耐熱溫度標示符合性試驗方法(MOHWU0023.02)。

Result 檢驗結果

Test Item	Result
檢驗項目	檢出結果
	White plastic bowl (big)
	白色塑膠碗(大)
Heat Resistance Test	
耐熱試驗	No change of functionality and color.
(120 ℃ [,] 1 hr)	功能性未受影響,無變褪色
(120 ℃,1 小時)	

Analysis of Food Utensils, Containers and Packages - Polylactic Acid (PLA) as Raw Material (四) 食品器具容器包裝檢測 - 原材料為聚乳酸(PLA)

Method 檢驗方法 : Lead (Pb) / Cadmium (Cd) / Total Lactic Acid / Consumption of Potassium Permanganate / Heavy Metals (as Pb) / Residues after Evaporation

鉛含量/鎘含量/總乳酸/高錳酸鉀消耗量/重金屬(以 Pb 計)/蒸發殘渣

MOHW Food No. 1071901951 Announcement (10/4/2018) Methods of Test for Food Utensils, Containers and Packages - Test of Polylactic Acid Plastic Products (MOHWU0017.03).

衛生福利部 107 年 10 月 4 日衛授食字第 1071901951 號公告修正食品器具、容器、包裝檢 驗方法 - 聚乳酸塑膠類之檢驗(MOHWU0017.03)。

Migration of Phthalates / Coloring Agents

溶出塑化劑 / 著色劑

MOHW Food No. 1071901983 Announcement (10/4/2018) Methods of Test for Food Utensils, Containers and Packages - Test of Plastic Products (MOHWU0028.04). 衛生福利部 107年 10月 4日衛授食字第 1071901983 號公告修正食品器具、容器、包裝檢 驗方法 - 塑膠類之檢驗(MOHWU0028.04)。

Phthalates

材質塑化劑

As per CNS 15138-1 (6/14/2012) - Method of test for determination of phthalates plasticizers in plastic products - Part 1: Gas chromatography/mass spectrometry. 依據 CNS 15138-1 (101 年 6 月 14 日) - 塑膠製品中鄰苯二甲酸酯類塑化劑試驗法-第 1 部: 氣相層析質譜法。







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(四) Analysis of Food Utensils, Containers and Packages - Polylactic Acid (PLA) as Raw Material 食品器具容器包裝檢測 - 原材料為聚乳酸(PLA)

Result 檢驗結果

Test Item	Unit 單	Limit of	Result	Limit #
檢驗項目	位	quantitation	檢出值	限值
		定量極限	White plactic	
			White plastic bowl (big)	
			<u>bowi (big)</u> 白色塑膠碗	
			(大)	
Material Test 材質試驗				
Lead (Pb)			Not detected	
鉛含量	ppm	5	未檢出	100
Cadmium (Cd)			Not detected	
鍋含量	ppm	0.5	未檢出	100
Di(2-ethylhexyl) Phthalate (DEHP)			Not detected	
鄰苯二甲酸二(2-乙基己基)酯(DEHP)	%	0.003	未檢出	0.1
Di-n-octyl Phthalate (DNOP)			Not detected	
鄰苯二甲酸二正辛酯(DNOP)	%	0.003	未檢出	0.1
Dibutyl Phthalate (DBP)			Not detected	
鄰苯二甲酸二丁酯(DBP)	%	0.003	未檢出	0.1
Benzylbutyl Phthalate (BBP)			Not detected	
鄰苯二甲酸丁苯甲酯(BBP)	%	0.003	未檢出	0.1
Diisodecyl Phthalate (DIDP)			Not detected	
鄰苯二甲酸二異癸酯(DIDP)	%	0.003	未檢出	0.1
Diisononyl Phthalate (DINP)			Not detected	
鄰苯二甲酸二異壬酯(DINP)	%	0.003	未檢出	0.1
Dimethyl Phthalate (DMP)			Not detected	
鄰苯二甲酸二甲酯(DMP)	%	0.003	未檢出	0.1
Diethyl Phthalate (DEP)			Not detected	
鄰苯二甲酸二乙酯(DEP)	%	0.003	未檢出	0.1
Migration Test 溶出試驗				
Total Lactic Acid				
總乳酸		_	Not detected	20
(Water, 60°C, 30 min)	ppm	5	未檢出	30
(水、60℃、30分鐘)				
Consumption of Potassium				
Permanganate				
高錳酸鉀消耗量	ppm	0.2	0.8	10
(Water, 60°C, 30 min)				
(水、60℃、30分鐘)				
Heavy Metals (as Pb)				
重金屬(以 Pb 計)	nnm	1	< 1	1
(4% Acetic Acid, 60°C, 30 min)	ppm	1	`	1
(4%醋酸、60℃、30分鐘)				







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(四) <u>Analysis of Food Utensils, Containers and Packages - Polylactic Acid (PLA) as Raw Material</u> 食品器具容器包裝檢測 - 原材料為聚乳酸(PLA)

Result 檢驗結果

Test Item 檢驗項目	Unit 單 位	Limit of quantitation 定量極限	Result 檢出值 White plastic bowl (big) 白色塑膠碗 (大)	Limit # 限值			
Migration Test 溶出試驗							
Residues after Evaporation (pH>5) 蒸發殘渣(pH>5) (Water, 60°C, 30 min) (水、60°C、30 分鐘)	ppm	1	Not detected 未檢出	30			
Residues after Evaporation (pH≤5) 蒸發殘渣(pH≤5) (4% Acetic Acid, 60°C, 30 min) (4%醋酸、60°C、30 分鐘)	ppm	1	Not detected 未檢出	30			
Residues after Evaporation (Oils and Fatty Foods) 蒸發殘渣(油脂/脂肪性食品) (n-Heptane, 25°C, 1 hour) (正庚烷、25°C、1小時)	ppm	1	Not detected 未檢出	30			
Residues after Evaporation (Alcoholic Beverages) 蒸發殘渣(酒類) (20% Alcohol, 60°C, 30 min) (20%酒精、60°C、30 分鐘)	ppm	1	Not detected 未檢出	30			
Di(2-ethylhexyl) Phthalate (DEHP) 鄰苯二甲酸二(2-乙基己基)酯(DEHP) (n-Heptane, 25°C, 1 hour) (正庚烷、25°C、1 小時)	ppm	0.05	Not detected 未檢出	1.5			
Dibutyl Phthalate (DBP) 鄰苯二甲酸二丁酯(DBP) (n-Heptane, 25°C, 1 hour) (正庚烷、25℃、1 小時)	ppm	0.05	Not detected 未檢出	0.3			
Benzyl Butyl Phthalate (BBP) 鄰苯二甲酸丁苯甲酯(BBP) (n-Heptane, 25°C, 1 hour) (正庚烷、25°C、1 小時)	ppm	0.05	Not detected 未檢出	30			
Di-(Iso-Nonyl) Phthalate (DINP) 鄰苯二甲酸二異壬酯(DINP) (n-Heptane, 25℃, 1 hour) (正庚烷、25℃、1 小時)	ppm	0.5	Not detected 未檢出	9			







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(四) Analysis of Food Utensils, Containers and Packages - Polylactic Acid (PLA) as Raw Material 食品器具容器包裝檢測 - 原材料為聚乳酸(PLA)

Result 檢驗結果

	quantitation 定量極限	檢出值 White plastic bowl (big) 白色塑膠碗 (大)	限值
	ZELIK	bowl (big) 白色塑膠碗	
		bowl (big) 白色塑膠碗	
		(大)	
om	0.5		9
		未檢出	
		Not detected	
om	0.05		18
		不饭山	
		Not detected	No migration
			著色劑
		. "	無溶出
			No minustion
		Not detected	No migration 著色劑
		未檢出	有它用 無溶出
			///
		Not detected	No migration
			著色劑
		111//	無溶出
			No migration
		Not detected	No migration 著色劑
		未檢出	無溶出
			////Т Ш
	om		Not detected 未檢出 Not detected 未檢出

[:] As per MOHW Food No. 1021350146 Announcement (8/20/2013) - Sanitation Standard for Food Utensils, Containers and Packages.

依據衛生福利部 102 年 8 月 20 日部授食字第 1021350146 號公告「食品器具容器包裝衛生標準」

As requested by applicant, the test was conducted only on components listed in this report. Other components were not tested.

依據客戶要求,僅測試列於此份報告的測試部位,其餘部位並未執行。

CNS: Chinese National Standards 中華民國國家標準







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Sample photo 樣品照片:





End of Report 結束

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