

## 測試報告

報告編號(No.): HTF21200201

報告日期(DATE): 2021/02/23

頁數(PAGE): 1 of 10

## Test Report

樂和開發股份有限公司 ( LALAZONE DEVELOPMENT CO., LTD. )

新北市汐止區茄苳路225巷11弄40號 ( NO. 40, ALY. 11, LN. 225, JIADONG RD., XIZHI DIST., NEW TAIPEI CITY 221, TAIWAN (R.O.C.) )

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as) :

樣品名稱(Sample Description) : 餐具  
樣品包裝/數量(Sample Package/Quantity) : 請參考報告末頁樣品照片 ( PLEASE REFER TO THE SAMPLE PHOTO AT THE END OF THE REPORT ) / 3  
樣品保存方式(Sample Packaging) : 常溫 ( AMBIENT TEMP. )  
樣品型號(Style/Item No.) : LA-0102-BL, LA-0101-BL, LA-0041-00-BL  
樣品批號(Lot. No.) : -  
樣品材質(Sample Material) : PP+礦纖  
送樣廠商(Sample Submitted By) : 樂和開發股份有限公司 ( LALAZONE DEVELOPMENT CO., LTD. )  
送樣廠商地址/電話/聯絡人(Company Add/Tel/Contact Person) : 新北市汐止區茄苳路225巷11弄40號(NO. 40, ALY. 11, LN. 225, JIADONG RD., XIZHI DIST., NEW TAIPEI CITY 221, TAIWAN (R.O.C.)) / 02-77362166 / 盧啟文  
製造日期(Manufacturing Date) : -  
有效日期(Expiry Date) : -  
相同材質/顏色樣品名稱 (Description of Sample(s) with Same Material/Color) : 五格餐盤, 稀飯盒, 圓形盤  
收件日(Sample Receiving Date) : 2021/02/05  
測試期間(Testing Period) : 2021/02/05 to 2021/02/23

### 測試需求 (Test Requested) :

依據客戶指定，參考中華民國食品器具容器包裝衛生標準 (102.08.20部授食字第1021350146號令修正) 進行測試。測試項目請參閱測試結果表格。(As specified by client, with reference to Sanitation Standard for Food Utensils, Containers and Packages (MOHW Food No. 1021350146, amended on 2013/08/20) to conduct test. Please refer to the result table(s) for testing item(s).)

### 測試結果(Test Results) :

請見下一頁。(Please refer to next page(s).)

蕭志祥  
蕭志祥 / 副理  
化學實驗室-台北  
台灣檢驗科技股份有限公司  
報告簽署人



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新北市汐止區茄苳路225巷11弄40號 ( NO. 40, ALY. 11, LN. 225, JIADONG RD., XIZHI DIST., NEW TAIPEI CITY 221, TAIWAN (R.O.C.) )

## 測試部位敘述(Test Part Description)

- No.1 : 藍色塑膠圓盤 (BLUE PLASTIC ROUND PLATE) (LA-0041-00-BL)  
 No.2 : 藍色塑膠圓盤(與食物接觸面) (BLUE PLASTIC ROUND PLATE)(FOOD CONTACT SIDE) (LA-0041-00-BL)

## 測試結果(Test Results)

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	LOQ/ LOD	結果 (Result)		食品衛生法規 (Limit)
				No.1	No.2	
★鉛 / Lead (Pb)	食品器具、容器、包裝檢驗方法-聚丙烯(PP)塑膠類之檢驗 (107年9月17日衛授食字第1071901787號公告) · / With reference to Methods of Test for Food Utensils, Containers and Packages - Test of Polypropylene (PP) Plastic Products (MOHW Food No. 1071901787 announced, September 17, 2018), analysis was performed by ICP-OES.	ppm	5	n.d.	---	100
★鎘 / Cadmium (Cd)		ppm	0.5	n.d.	---	100
★高錳酸鉀消耗量-(水, 95°C, 30分鐘) / Potassium permanganate consumption-(water, 95°C, 30 min)		ppm	3	---	n.d.	10
★蒸發殘渣-(水, 95°C, 30分鐘) / Evaporation residue-(water, 95°C, 30 min)		ppm	3	---	3	30
★蒸發殘渣-(4%醋酸, 95°C, 30分鐘) / Evaporation residue-(4% acetic acid, 95°C, 30 min)		ppm	3	---	8	30
★蒸發殘渣-(正庚烷, 25°C, 1小時) / Evaporation residue-(n-Heptane, 25°C, 1 hr)	ppm	3	---	n.d.	30 (*1)	

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## Test Report

樂和開發股份有限公司 (LALAZONE DEVELOPMENT CO., LTD.)

新北市汐止區茄苳路225巷11弄40號 (NO. 40, ALY. 11, LN. 225, JIADONG RD., XIZHI DIST., NEW TAIPEI CITY 221, TAIWAN (R.O.C.))

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	LOQ/ LOD	結果 (Result)		食品衛生法規 (Limit)
				No.1	No.2	
★蒸發殘渣-(20%酒精, 60°C, 30分鐘) / Evaporation residue-(20% alcohol, 60°C, 30 min)	食品器具、容器、包裝檢驗方法-聚丙烯(PP)塑膠類之檢驗 (107年9月17日衛授食字第1071901787號公告) 。 / With reference to Methods of Test for Food Utensils, Containers and Packages - Test of Polypropylene (PP) Plastic Products (MOHW Food No. 1071901787 announced, September 17, 2018).	ppm	3	---	n.d.	30
★重金屬(以鉛計)-(4%醋酸, 95°C, 30分鐘) / Heavy metal (as Pb)-(4% acetic acid, 95°C, 30 min)		ppm	-	---	<1	1
★著色劑-(水, 95°C, 30分鐘) / Colouring agent-(water, 95°C, 30 min)	食品器具、容器、包裝檢驗方法-塑膠類之檢驗 (107年10月4日衛授食字第1071901983號公告) 。 / With reference to Methods of Test for Food Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1071901983 announced, October 04, 2018).	ppm	50	---	未檢出 / Not detected	-
★著色劑-(4%醋酸, 95°C, 30分鐘) / Colouring agent-(4% acetic acid, 95°C, 30 min)		ppm	50	---	未檢出 / Not detected	-
★著色劑-(20%酒精, 60°C, 30分鐘) / Colouring agent-(20% alcohol, 60°C, 30 min)		ppm	50	---	未檢出 / Not detected	-
★著色劑-(正庚烷, 25°C, 1小時) / Colouring agent-(n-Heptane, 25°C, 1 hr)		ppm	50	---	未檢出 / Not detected	-

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# Test Report

樂和開發股份有限公司 ( LALAZONE DEVELOPMENT CO., LTD. )

新北市汐止區茄苳路225巷11弄40號 ( NO. 40, ALY. 11, LN. 225, JIADONG RD., XIZHI DIST., NEW TAIPEI CITY 221, TAIWAN (R.O.C.) )

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	LOQ/ LOD	結果 (Result)		食品衛生法規 (Limit)
				No.1	No.2	
★鄰苯二甲酸二(2-乙基己基)酯 (正庚烷, 25°C, 1小時) / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7) (n-Heptane, 25°C, 1 hr)	食品器具、容器、包裝檢驗方法-塑膠類之檢驗 (107年10月4日衛授食字第1071901983號公告) · 以氣相層析質譜儀分析。 / With reference to Methods of Test for Food Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1071901983 announced, October 04, 2018), analysis was performed by GC/MS.	ppm	0.05	---	n.d.	1.5
★鄰苯二甲酸二丁酯 (正庚烷, 25°C, 1小時) / DBP (Di-n-butyl phthalate) (CAS No.: 84-74-2) (n-Heptane, 25°C, 1 hr)		ppm	0.05	---	n.d.	0.3
★鄰苯二甲酸丁苯甲酯 (正庚烷, 25°C, 1小時) / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7) (n-Heptane, 25°C, 1 hr)		ppm	0.05	---	n.d.	30
★鄰苯二甲酸二異癸酯 (正庚烷, 25°C, 1小時) / DIDP (Diisodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1) (n-Heptane, 25°C, 1 hr)		ppm	0.5	---	n.d.	9
★鄰苯二甲酸二異壬酯 (正庚烷, 25°C, 1小時) / DINP (Diisononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0) (n-Heptane, 25°C, 1 hr)		ppm	0.5	---	n.d.	9
★己二酸二(2-乙基己基)酯 (正庚烷, 25°C, 1小時) / DEHA (Di-2-ethylhexyl Adipate) (CAS No.: 103-23-1) (n-Heptane, 25°C, 1 hr)		ppm	0.05	---	n.d.	18
★鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	CNS 15138-1 (民國101年) · 以氣相層析質譜儀分析。 / With reference to CNS 15138-1 (2012), analysis was performed by GC/MS.	%	0.003	n.d.	---	0.1
★鄰苯二甲酸二丁酯 / DBP (Di-n-butyl phthalate) (CAS No.: 84-74-2)		%	0.003	n.d.	---	0.1
★鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)		%	0.003	n.d.	---	0.1

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報告編號(No.): HTF21200201

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# Test Report

樂和開發股份有限公司 ( LALAZONE DEVELOPMENT CO., LTD. )

新北市汐止區茄苳路225巷11弄40號 ( NO. 40, ALY. 11, LN. 225, JIADONG RD., XIZHI DIST., NEW TAIPEI CITY 221, TAIWAN (R.O.C.) )

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	LOQ/ LOD	結果 (Result)		食品衛生法規 (Limit)
				No.1	No.2	
★鄰苯二甲酸二異癸酯 / DIDP (Diisodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)	CNS 15138-1 (民國101年) · 以氣相層析質譜儀分析。 / With reference to CNS 15138-1 (2012), analysis was performed by GC/MS.	%	0.01	n.d.	---	0.1
★鄰苯二甲酸二異壬酯 / DINP (Diisononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)		%	0.01	n.d.	---	0.1
★鄰苯二甲酸二甲酯 / DMP (Dimethyl phthalate) (CAS No.: 131-11-3)		%	0.003	n.d.	---	0.1
★鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)		%	0.003	n.d.	---	0.1
★鄰苯二甲酸二乙酯 / DEP (Diethyl phthalate) (CAS No.: 84-66-2)		%	0.003	n.d.	---	0.1

## 備註(Note) :

1. 檢驗報告僅就委託者之委託事項提供檢驗結果，不對產品合法性做判斷。(The test report merely reflects the test results of the consigned matters of the client and is not a certification of the legitimacy of the related products.)
2. 本檢驗報告之所有檢驗內容，均依委託事項執行檢驗，如有不實，願意承擔完全責任。(All contents in the test report are conducted according to the customer-specified items. If there is any falsehood, we are willing to take corresponding responsibility.)
3. 本報告不得分離或擷錄使用。(The report is invalid if it is partly reproduced or used.)
4. mg/kg = ppm ; 0.1wt% = 1000 ppm
5. LOQ = 定量極限，若該測試項目屬於定量分析則以「LOQ」表示；LOD = 偵測極限，若該測試項目屬於定性分析則以「LOD」表示。(LOQ = Limit of Quantification, for quantitative analyses; LOD = Limit of Detection, for qualitative analyses.)
6. n.d. = Not Detected (未檢出) = Less than (小於) LOQ/LOD
7. "-" = Not Regulated (無規格值)
8. "---" = Not Conducted (未測項目)

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新北市汐止區茄苳路225巷11弄40號 (NO. 40, ALY. 11, LN. 225, JIADONG RD., XIZHI DIST., NEW TAIPEI CITY 221, TAIWAN (R.O.C.))

9. (\*1): 針對油脂及脂肪性食品用容器、包裝。(For containers and packages for oils and fatty foods.)
10. 測試項目名稱旁有★者，為本實驗室通過衛生福利部食品藥物管理署認證項目。(The test method marked with ★ is accredited by MOHW.)
11. 法規標準值係依據衛生福利部食品藥物管理署102年08月20日部授食字第1021350146號令 食品器具容器包裝衛生標準之法規限值。(The limit value(s) is/are according to "Sanitation Standard for Food Utensils, Containers and Packages (MOHW Food No. 1021350146, amended on 2013/08/20)", Taiwan Food and Drug Administration, Ministry of Health and Welfare.)
12. 此用途為驗貨報告。(This testing report is subject to inspection.)

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# 測試報告 Test Report

報告編號(No.): HTF23500581

報告日期(DATE): 2023/05/26

頁數(PAGE): 1 of 14

樂和開發股份有限公司 ( LALAZONE DEVELOPMENT CO., LTD. )

新北市汐止區福德一路342巷3弄25號2樓 ( 2F., NO. 25, ALY. 3, LN. 342, FUDE 1ST RD., XIZHI DIST., NEW TAIPEI CITY 221010, TAIWAN (R.O.C.) )

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as) :

樣品名稱(Sample Description)	:	UTENSILS ( 餐具組 )
樣品包裝/數量(Sample Package/Quantity)	:	請參考報告末頁樣品照片 ( PLEASE REFER TO THE SAMPLE PHOTO AT THE END OF THE REPORT ) / -
樣品保存方式(Sample Packaging)	:	常溫 ( AMBIENT TEMP. )
樣品型號(Style/Item No.)	:	LA-CS-0210-AGON, LA-0102-PK-6, LA-CP-0001, LA-0121, LA-0122, LA-BOX, LA-C0004-F, LA-C0004-K, LA-C0004-S, LA-CS-0240B, LA-SP-0145, LA-GA-0002
樣品批號(Lot. No.)	:	-
樣品材質(Sample Material)	:	PP
送樣廠商(Sample Submitted By)	:	樂和開發股份有限公司 ( LALAZONE DEVELOPMENT CO., LTD. )
送樣廠商地址/電話/聯絡人(Company Add/Tel/Contact Person)	:	新北市汐止區福德一路342巷3弄25號2樓(2F., NO. 25, ALY. 3, LN. 342, FUDE 1ST RD., XIZHI DIST., NEW TAIPEI CITY 221, TAIWAN (R.O.C.)) / 02-77362166 / 劉秀娟
製造日期(Manufacturing Date)	:	-
有效日期(Expiry Date)	:	-
原產國(Country of Origin)	:	台灣 ( TAIWAN )

=====

收件日(Sample Receiving Date)	:	2023/05/17
測試期間(Testing Period)	:	2023/05/17 to 2023/05/26

## 測試需求 (Test Requested)

- (1) 依據客戶指定，參考中華民國食品器具容器包裝衛生標準 (112.01.11部授食字第1111303439號令修正) 進行測試。測試項目請參閱測試結果表格。(As specified by client, with reference to Sanitation Standard for Food Utensils, Containers and Packages (MOHW Food No. 1111303439, amended on 2023/01/11) to conduct test. Please refer to the result table(s) for testing item(s).)
- (2) 依據客戶指定，參考中華民國食品安全衛生管理法 (108.06.12) 第26條進行測試。測試項目請參閱測試結果表格。(As specified by client, with reference to Act Governing Food Sanitation Article 26 (amended and promulgated on 2019/06/12) to conduct test. Please refer to the result table(s) for testing item(s).)

測試結果 (Test Results) : 請見下一頁。(Please refer to next page(s).)

蕭志祥

蕭志祥 / 副理  
化學實驗室 - 台北  
台灣檢驗科技股份有限公司  
報告簽署人



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# 測試報告 Test Report

報告編號(No.): HTF23500581

報告日期(DATE): 2023/05/26

頁數(PAGE): 2 of 14

樂和開發股份有限公司 ( LALAZONE DEVELOPMENT CO., LTD. )

新北市汐止區福德一路342巷3弄25號2樓 ( 2F., NO. 25, ALY. 3, LN. 342, FUDE 1ST RD., XIZHI DIST., NEW TAIPEI CITY 221010, TAIWAN (R.O.C.) )

## 測試部位敘述(Test Part Description)

No.1	:	塑膠刀 (PLASTIC KNIFE)
No.2	:	塑膠盤 (PLASTIC PLATE)
No.3	:	塑膠杯 (PLASTIC CUP)
No.4	:	塑膠筷 (PLASTIC CHOPSTICK)
No.5	:	塑膠碟 (PLASTIC DISH)
No.6	:	塑膠匙 (PLASTIC SPOON)
No.7	:	塑膠盒 (PLASTIC BOX)
No.8	:	塑膠叉 (PLASTIC FORK)
No.9	:	塑膠匙 (PLASTIC SPOON)
No.10	:	塑膠碟 (PLASTIC DISH)
No.11	:	塑膠碗 (PLASTIC BOWL)
No.12	:	塑膠筷 (PLASTIC CHOPSTICK)

## 測試結果(Test Results)

(1)

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	LOQ/ LOD	結果 (Result)		食品衛生 法規 (Limit)
				No.1	No.2	
★鉛 / Lead (Pb)	衛生福利部107.09.17衛授食字第1071901787號公告修正食品器具、容器、包裝檢驗方法-聚丙烯塑膠類之檢驗。 / Methods of Test for Food Utensils, Containers and Packages - Test of Polypropylene (PP) Plastic Products (MOHW Food No. 1071901787 announced, September 17, 2018).	ppm	5	n.d.	---	100
★鎘 / Cadmium (Cd)		ppm	0.5	---	n.d.	100

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# 測試報告 Test Report

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樂和開發股份有限公司 ( LALAZONE DEVELOPMENT CO., LTD. )

新北市汐止區福德一路342巷3弄25號2樓 ( 2F., NO. 25, ALY. 3, LN. 342, FUDE 1ST RD., XIZHI DIST., NEW TAIPEI CITY 221010, TAIWAN (R.O.C.) )

(1)

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	LOQ/ LOD	結果 (Result)		食品衛生 法規 (Limit)
				No.3	No.4	
★鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	CNS 15138-1 · Z8139-1 : 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。 / CNS 15138-1 Z8139-1 Method of test for determination of phthalates plasticizers in plastic products - Part 1: Gas chromatography/mass spectrometry.	%	0.003	n.d.	---	0.1
★鄰苯二甲酸二丁酯 / DBP (Di-n-butyl phthalate) (CAS No.: 84-74-2)		%	0.003	n.d.	---	0.1
★鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)		%	0.003	n.d.	---	0.1
★鄰苯二甲酸二異癸酯 / DIDP (Diisodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)		%	0.01	n.d.	---	0.1
★鄰苯二甲酸二異壬酯 / DINP (Diisononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)		%	0.01	n.d.	---	0.1
★鄰苯二甲酸二甲酯 / DMP (Dimethyl phthalate) (CAS No.: 131-11-3)		%	0.003	n.d.	---	0.1
★鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)		%	0.003	n.d.	---	0.1
★鄰苯二甲酸二乙酯 / DEP (Diethyl phthalate) (CAS No.: 84-66-2)		%	0.003	n.d.	---	0.1
★高錳酸鉀消耗量-(水, 95°C, 30分鐘) / Potassium permanganate consumption-(water, 95°C, 30 min)	衛生福利部107.09.17衛授食字第1071901787號公告修正食品器具、容器、包裝檢驗方法-聚丙烯塑膠類之檢驗。 / Methods of Test for Food Utensils, Containers and Packages - Test of Polypropylene (PP) Plastic Products (MOHW Food No. 1071901787 announced, September 17, 2018).	ppm	3	---	n.d.	10

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樂和開發股份有限公司 ( LALAZONE DEVELOPMENT CO., LTD. )

新北市汐止區福德一路342巷3弄25號2樓 ( 2F., NO. 25, ALY. 3, LN. 342, FUDE 1ST RD., XIZHI DIST., NEW TAIPEI CITY 221010, TAIWAN (R.O.C.) )

(1)

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	LOQ/ LOD	結果 (Result)		食品衛生 法規 (Limit)
				No.5	No.6	
★蒸發殘渣-(水, 95°C, 30分鐘) / Evaporation residue-(water, 95°C, 30 min)	衛生福利部107.09.17衛授食字第1071901787號公告修正食品器具、容器、包裝檢驗方法-聚丙烯塑膠類之檢驗。 / Methods of Test for Food Utensils, Containers and Packages - Test of Polypropylene (PP) Plastic Products (MOHW Food No. 1071901787 announced, September 17, 2018).	ppm	3	n.d.	---	30
★重金屬(以鉛計)-(4%醋酸, 95°C, 30分鐘) / Heavy metal (as Pb)-(4% acetic acid, 95°C, 30 min)		ppm	-	---	<1	1

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	LOQ/ LOD	結果 (Result)		食品衛生 法規 (Limit)
				No.7	No.8	
★蒸發殘渣-(4%醋酸, 95°C, 30分鐘) / Evaporation residue-(4% acetic acid, 95°C, 30 min)	衛生福利部107.09.17衛授食字第1071901787號公告修正食品器具、容器、包裝檢驗方法-聚丙烯塑膠類之檢驗。 / Methods of Test for Food Utensils, Containers and Packages - Test of Polypropylene (PP) Plastic Products (MOHW Food No. 1071901787 announced, September 17, 2018).	ppm	3	n.d.	---	30
★蒸發殘渣-(正庚烷, 25°C, 1小時) / Evaporation residue-(n-Heptane, 25°C, 1 hr)		ppm	3	---	n.d.	30 (*1)

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樂和開發股份有限公司 (LALAZONE DEVELOPMENT CO., LTD.)

新北市汐止區福德一路342巷3弄25號2樓 (2F., NO. 25, ALY. 3, LN. 342, FUDE 1ST RD., XIZHI DIST., NEW TAIPEI CITY 221010, TAIWAN (R.O.C.))

(1)

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	LOQ/ LOD	結果 (Result)		食品衛生 法規 (Limit)
				No.9	No.10	
★蒸發殘渣-(20%乙醇, 60°C, 30分鐘) / Evaporation residue-(20% ethanol, 60°C, 30 min)	衛生福利部107.09.17衛授食字第1071901787號公告修正食品器具、容器、包裝檢驗方法-聚丙烯塑膠類之檢驗。 / Methods of Test for Food Utensils, Containers and Packages - Test of Polypropylene (PP) Plastic Products (MOHW Food No. 1071901787 announced, September 17, 2018).	ppm	3	4	---	30
★鄰苯二甲酸丁苯甲酯 (正庚烷, 25°C, 1小時) / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7) (n-Heptane, 25°C, 1 hr)	衛生福利部107.10.04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。 / Methods of Test for Food Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1071901983 announced, October 04, 2018).	ppm	0.05	---	n.d.	30
★鄰苯二甲酸二丁酯 (正庚烷, 25°C, 1小時) / DBP (Di-n-butyl phthalate) (CAS No.: 84-74-2) (n-Heptane, 25°C, 1 hr)		ppm	0.05	---	n.d.	0.3
★鄰苯二甲酸二異壬酯 (正庚烷, 25°C, 1小時) / DINP (Diisononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0) (n-Heptane, 25°C, 1 hr)		ppm	0.5	---	n.d.	9
★鄰苯二甲酸二異癸酯 (正庚烷, 25°C, 1小時) / DIDP (Diisodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1) (n-Heptane, 25°C, 1 hr)		ppm	0.5	---	n.d.	9
★鄰苯二甲酸二(2-乙基己基)酯 (正庚烷, 25°C, 1小時) / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7) (n-Heptane, 25°C, 1 hr)		ppm	0.05	---	n.d.	1.5
★己二酸二(2-乙基己基)酯 (正庚烷, 25°C, 1小時) / DEHA (Di-2-ethylhexyl Adipate) (CAS No.: 103-23-1) (n-Heptane, 25°C, 1 hr)		ppm	0.05	---	n.d.	18

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樂和開發股份有限公司 (LALAZONE DEVELOPMENT CO., LTD.)

新北市汐止區福德一路342巷3弄25號2樓 (2F., NO. 25, ALY. 3, LN. 342, FUDE 1ST RD., XIZHI DIST., NEW TAIPEI CITY 221010, TAIWAN (R.O.C.))

(1)

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	LOQ/ LOD	結果 (Result)		食品衛生 法規 (Limit)
				No.11	No.12	
★著色劑-(水, 95°C, 30分鐘) / Colouring agent-(water, 95°C, 30 min)	衛生福利部107.10.04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。 / Methods of Test for Food Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1071901983 announced, October 04, 2018).	ppm	50	未檢出 / Not detected	---	-
★著色劑-(4%醋酸, 95°C, 30分鐘) / Colouring agent-(4% acetic acid, 95°C, 30 min)		ppm	50	未檢出 / Not detected	---	-
★著色劑-(20%乙醇, 60°C, 30分鐘) / Colouring agent-(20% ethanol, 60°C, 30 min)		ppm	50	未檢出 / Not detected	---	-
★著色劑-(正庚烷, 25°C, 1小時) / Colouring agent-(n-Heptane, 25°C, 1 hr)		ppm	50	未檢出 / Not detected	---	-

(2)

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	LOQ/ LOD	結果 (Result)		食品衛生 法規 (Limit)
				No.11	No.12	
★耐熱性試驗 / Heat Tolerance (120°C, 1 h)	衛生福利部106.11.13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。 / Methods of Test for Labeling Conformance of Heat Tolerance of Plastic Food Utensils, Containers and Packages (MOHW Food No. 1061902219 announced, November 13, 2017).	-	-	---	功能性正常 · 無變褪色 / No appearance change	功能性正常 · 無變褪色 / No appearance change

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樂和開發股份有限公司 (LALAZONE DEVELOPMENT CO., LTD.)

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## 備註(Note) :

1. 檢驗報告僅就委託者之委託事項提供檢驗結果，不對產品合法性做判斷。(The test report merely reflects the test results of the consigned matters of the client and is not a certification of the legitimacy of the related products.)
2. 本檢驗報告之所有檢驗內容，均依委託事項執行檢驗，如有不實，願意承擔完全責任。(All contents in the test report are conducted according to the customer-specified items. If there is any falsehood, we are willing to take corresponding responsibility.)
3. 本報告不得分離或擷錄使用。(The report is invalid if it is partly reproduced or used.)
4. mg/kg = ppm ; 0.1wt% = 1000 ppm
5. LOQ = 定量極限，若該測試項目屬於定量分析則以「LOQ」表示；LOD = 偵測極限，若該測試項目屬於定性分析則以「LOD」表示。(LOQ = Limit of Quantification, for quantitative analyses; LOD = Limit of Detection, for qualitative analyses.)
6. n.d. = Not Detected (未檢出) = Less than (小於) LOQ/LOD
7. "-" = Not Regulated (無規格值)
8. "---" = Not Conducted (未測項目)
9. (\*1): 針對油脂及脂肪性食品用容器、包裝。(For containers and packages for oils and fatty foods.)
10. 測試項目名稱旁有★者，為本實驗室通過衛生福利部認證項目。(The test method marked with ★ is accredited by MOHW.)
11. 法規標準值係依據衛生福利部112年01月11日部授食字第1111303439號令 食品器具容器包裝衛生標準之法規限值。(The limit value(s) is/are according to "Sanitation Standard for Food Utensils, Containers and Packages (MOHW Food No. 1111303439, amended on 2023/01/11)", Ministry of Health and Welfare of Taiwan.)
12. 法規標準值係依據衛生福利部108年06月12日總統令 食品安全衛生管理法第26條之法規規定。(The limit value(s) is/are according to "Act Governing Food Sanitation Article 26 (amended and promulgated on 2019/06/12)", Ministry of Health and Welfare of Taiwan.)

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# 測試報告 Test Report

報告編號(No.): HTF23100819

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樂和開發股份有限公司 ( LALAZONE DEVELOPMENT CO., LTD. )

新北市汐止區福德一路342巷3弄25號2樓 ( 2F., NO. 25, ALY. 3, LN. 342, FUDE 1ST RD., XIZHI DIST., NEW TAIPEI CITY 221010, TAIWAN (R.O.C.) )

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as) :

樣品名稱(Sample Description) : UTENSILS ( 餐具有組 )  
樣品包裝/數量(Sample Package/Quantity) : 請參考報告末頁樣品照片 ( PLEASE REFER TO THE SAMPLE PHOTO AT THE END OF THE REPORT ) / -  
樣品保存方式(Sample Packaging) : 常溫 ( AMBIENT TEMP. )  
樣品型號(Style/Item No.) : LA-BL-0003-BE; LA-BL-0004-BE; LA-BL-0005-BE; LA-BL-0006-BE; LA-BL-0007-BE; LA-BL-0008-BE; LA-BL-0009-BE; LA-BL-0010-BE; LA-BL-0011-BE; LA-CS-0240B-BE; LA-SP-0145-BE; LA-SP-0180-BE  
樣品批號(Lot. No.) : -  
樣品材質(Sample Material) : PP  
送樣廠商(Sample Submitted By) : 樂和開發股份有限公司 ( LALAZONE DEVELOPMENT CO., LTD. )  
送樣廠商地址/電話/聯絡人(Company Add/Tel/Contact Person) : 新北市汐止區福德一路342巷3弄25號2樓(2F., NO. 25, ALY. 3, LN. 342, FUDE 1ST RD., XIZHI DIST., NEW TAIPEI CITY 221 , TAIWAN (R.O.C.)) / 02-77362166 / 劉秀娟

製造日期(Manufacturing Date) : -  
有效日期(Expiry Date) : -  
原產國(Country of Origin) : 台灣 ( TAIWAN )

收件日(Sample Receiving Date) : 2023/01/13  
測試期間(Testing Period) : 2023/01/13 to 2023/02/01

測試需求 (Test Requested) :  
依據客戶指定，參考中華民國食品器具容器包裝衛生標準 (112.01.11部授食字第1111303439號令修正) 進行測試。測試項目請參閱測試結果表格。(As specified by client, with reference to Sanitation Standard for Food Utensils, Containers and Packages (MOHW Food No. 1111303439, amended on 2023/01/11) to conduct test. Please refer to the result table(s) for testing item(s).)

測試結果 (Test Results) : 請見下一頁。(Please refer to next page(s).)

蕭志祥

蕭志祥 / 副理  
化學實驗室 - 台北  
台灣檢驗科技股份有限公司  
報告簽署人



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# 測試報告 Test Report

報告編號(No.): HTF23100819

報告日期(DATE): 2023/02/01

頁數(PAGE): 2 of 13

樂和開發股份有限公司 ( LALAZONE DEVELOPMENT CO., LTD. )

新北市汐止區福德一路342巷3弄25號2樓 ( 2F., NO. 25, ALY. 3, LN. 342, FUDE 1ST RD., XIZHI DIST., NEW TAIPEI CITY 221010, TAIWAN (R.O.C.) )

## 測試部位敘述(Test Part Description)

No.1	:	塑膠碗 (PLASTIC BOWL)
No.2	:	塑膠碗 (PLASTIC BOWL)
No.3	:	塑膠碗 (PLASTIC BOWL)
No.4	:	塑膠盤 (PLASTIC PLATE)
No.5	:	塑膠碗 (PLASTIC BOWL)
No.6	:	塑膠碗 (PLASTIC BOWL)
No.7	:	塑膠匙 (PLASTIC SPOON)
No.8	:	塑膠盤 (PLASTIC PLATE)
No.9	:	塑膠盤 (PLASTIC PLATE)
No.10	:	塑膠碟 (PLASTIC PLATE)
No.11	:	塑膠匙 (PLASTIC SPOON)
No.12	:	塑膠筷 (PLASTIC CHOPSTICK)

## 測試結果(Test Results)

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	LOQ/ LOD	結果 (Result)			食品衛 生法規 (Limit)
				No.1	No.2	No.3	
★鉛 / Lead (Pb)	衛生福利部107.09.17衛授食 字第1071901787號公告修 正食品器具、容器、包裝檢 驗方法-聚丙烯塑膠類之檢 驗。 / Methods of Test for Food Utensils, Containers and Packages - Test of Polypropylene (PP) Plastic Products (MOHW Food No. 1071901787 announced, September 17, 2018).	ppm	5	n.d.	---	---	100
★鎘 / Cadmium (Cd)		ppm	0.5	n.d.	---	---	100

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樂和開發股份有限公司 ( LALAZONE DEVELOPMENT CO., LTD. )

新北市汐止區福德一路342巷3弄25號2樓 ( 2F., NO. 25, ALY. 3, LN. 342, FUDE 1ST RD., XIZHI DIST., NEW TAIPEI CITY 221010, TAIWAN (R.O.C.) )

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	LOQ/ LOD	結果 (Result)			食品衛生法規 (Limit)
				No.1	No.2	No.3	
★鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	CNS 15138-1 · Z8139-1 : 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。 / CNS 15138-1 Z8139-1 Method of test for determination of phthalates plasticizers in plastic products - Part 1: Gas chromatography/mass spectrometry.	%	0.003	n.d.	---	---	0.1
★鄰苯二甲酸二丁酯 / DBP (Di-n-butyl phthalate) (CAS No.: 84-74-2)		%	0.003	n.d.	---	---	0.1
★鄰苯二甲酸二苄基酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)		%	0.003	n.d.	---	---	0.1
★鄰苯二甲酸二異癸酯 / DIDP (Diisodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)		%	0.01	n.d.	---	---	0.1
★鄰苯二甲酸二異壬酯 / DINP (Diisononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)		%	0.01	n.d.	---	---	0.1
★鄰苯二甲酸二甲酯 / DMP (Dimethyl phthalate) (CAS No.: 131-11-3)		%	0.003	n.d.	---	---	0.1
★鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)		%	0.003	n.d.	---	---	0.1
★鄰苯二甲酸二乙酯 / DEP (Diethyl phthalate) (CAS No.: 84-66-2)		%	0.003	n.d.	---	---	0.1
★高錳酸鉀消耗量-(水, 95°C, 30分鐘) / Potassium permanganate consumption-(water, 95°C, 30 min)	衛生福利部107.09.17衛授食字第1071901787號公告修正食品器具、容器、包裝檢驗方法-聚丙烯塑膠類之檢驗。 / Methods of Test for Food Utensils, Containers and Packages - Test of Polypropylene (PP) Plastic Products (MOHW Food No. 1071901787 announced, September 17, 2018).	ppm	3	---	n.d.	---	10
★蒸發殘渣-(水, 95°C, 30分鐘) / Evaporation residue-(water, 95°C, 30 min)		ppm	3	---	---	n.d.	30

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樂和開發股份有限公司 ( LALAZONE DEVELOPMENT CO., LTD. )

新北市汐止區福德一路342巷3弄25號2樓 ( 2F., NO. 25, ALY. 3, LN. 342, FUDE 1ST RD., XIZHI DIST., NEW TAIPEI CITY 221010, TAIWAN (R.O.C.) )

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	LOQ/ LOD	結果 (Result)			食品衛生法規 (Limit)
				No.4	No.5	No.6	
★重金屬(以鉛計)-(4%醋酸, 95°C, 30分鐘) / Heavy metal (as Pb)-(4% acetic acid, 95°C, 30 min)	衛生福利部107.09.17衛授食字第1071901787號公告修正食品器具、容器、包裝檢驗方法-聚丙烯塑膠類之檢驗。 / Methods of Test for Food Utensils, Containers and Packages - Test of Polypropylene (PP) Plastic Products (MOHW Food No. 1071901787 announced, September 17, 2018).	ppm	-	<1	---	---	1
★蒸發殘渣-(4%醋酸, 95°C, 30分鐘) / Evaporation residue-(4% acetic acid, 95°C, 30 min)		ppm	3	---	4	---	30
★蒸發殘渣-(正庚烷, 25°C, 1小時) / Evaporation residue-(n-Heptane, 25°C, 1 hr)		ppm	3	---	---	n.d.	30 (*1)

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	LOQ/ LOD	結果 (Result)			食品衛生法規 (Limit)
				No.7	No.8	No.9	
★蒸發殘渣-(20%乙醇, 60°C, 30分鐘) / Evaporation residue-(20% ethanol, 60°C, 30 min)	衛生福利部107.09.17衛授食字第1071901787號公告修正食品器具、容器、包裝檢驗方法-聚丙烯塑膠類之檢驗。 / Methods of Test for Food Utensils, Containers and Packages - Test of Polypropylene (PP) Plastic Products (MOHW Food No. 1071901787 announced, September 17, 2018).	ppm	3	n.d.	---	---	30

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樂和開發股份有限公司 (LALAZONE DEVELOPMENT CO., LTD.)

新北市汐止區福德一路342巷3弄25號2樓 (2F., NO. 25, ALY. 3, LN. 342, FUDE 1ST RD., XIZHI DIST., NEW TAIPEI CITY 221010, TAIWAN (R.O.C.))

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	LOQ/ LOD	結果 (Result)			食品衛生法規 (Limit)
				No.7	No.8	No.9	
★鄰苯二甲酸丁苯甲酯 (正庚烷, 25°C, 1小時) / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7) (n-Heptane, 25°C, 1 hr)	衛生福利部107.10.04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。 / Methods of Test for Food Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1071901983 announced, October 04, 2018).	ppm	0.05	---	n.d.	---	30
★鄰苯二甲酸二丁酯 (正庚烷, 25°C, 1小時) / DBP (Di-n-butyl phthalate) (CAS No.: 84-74-2) (n-Heptane, 25°C, 1 hr)		ppm	0.05	---	n.d.	---	0.3
★鄰苯二甲酸二異壬酯 (正庚烷, 25°C, 1小時) / DINP (Diisononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0) (n-Heptane, 25°C, 1 hr)		ppm	0.5	---	n.d.	---	9
★鄰苯二甲酸二異癸酯 (正庚烷, 25°C, 1小時) / DIDP (Diisodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1) (n-Heptane, 25°C, 1 hr)		ppm	0.5	---	n.d.	---	9
★鄰苯二甲酸二(2-乙基己基)酯 (正庚烷, 25°C, 1小時) / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7) (n-Heptane, 25°C, 1 hr)		ppm	0.05	---	n.d.	---	1.5
★己二酸二(2-乙基己基)酯 (正庚烷, 25°C, 1小時) / DEHA (Di-2-ethylhexyl Adipate) (CAS No.: 103-23-1) (n-Heptane, 25°C, 1 hr)		ppm	0.05	---	n.d.	---	18
★著色劑-(水, 95°C, 30分鐘) / Colouring agent-(water, 95°C, 30 min)		衛生福利部107.10.04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。 / Methods of Test for Food Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1071901983 announced, October 04, 2018).	ppm	50	---	---	未檢出 / Not detected

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樂和開發股份有限公司 (LALAZONE DEVELOPMENT CO., LTD.)

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測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	LOQ/ LOD	結果 (Result)			食品衛生法規 (Limit)
				No.10	No.11	No.12	
★著色劑-(4%醋酸, 95°C, 30分鐘) / Colouring agent-(4% acetic acid, 95°C, 30 min)	衛生福利部107.10.04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。 / Methods of Test for Food Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1071901983 announced, October 04, 2018).	ppm	50	未檢出 / Not detected	---	---	-
★著色劑-(20%乙醇, 60°C, 30分鐘) / Colouring agent-(20% ethanol, 60°C, 30 min)		ppm	50	---	未檢出 / Not detected	---	-
★著色劑-(正庚烷, 25°C, 1小時) / Colouring agent-(n-Heptane, 25°C, 1 hr)		ppm	50	---	---	未檢出 / Not detected	-

## 備註(Note) :

1. 檢驗報告僅就委託者之委託事項提供檢驗結果，不對產品合法性做判斷。(The test report merely reflects the test results of the consigned matters of the client and is not a certification of the legitimacy of the related products.)
2. 本檢驗報告之所有檢驗內容，均依委託事項執行檢驗，如有不實，願意承擔完全責任。(All contents in the test report are conducted according to the customer-specified items. If there is any falsehood, we are willing to take corresponding responsibility.)
3. 本報告不得分離或擷錄使用。(The report is invalid if it is partly reproduced or used.)
4. mg/kg = ppm ; 0.1wt% = 1000 ppm
5. LOQ = 定量極限，若該測試項目屬於定量分析則以「LOQ」表示；LOD = 偵測極限，若該測試項目屬於定性分析則以「LOD」表示。(LOQ = Limit of Quantification, for quantitative analyses; LOD = Limit of Detection, for qualitative analyses.)
6. n.d. = Not Detected (未檢出) = Less than (小於) LOQ/LOD
7. "-" = Not Regulated (無規格值)
8. "---" = Not Conducted (未測項目)
9. (\*1): 針對油脂及脂肪性食品用容器、包裝。(For containers and packages for oils and fatty foods.)

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10. 測試項目名稱旁有★者，為本實驗室通過衛生福利部認證項目。(The test method marked with ★ is accredited by MOHW.)
11. 法規標準值係依據衛生福利部112年01月11日部授食字第1111303439號令 食品器具容器包裝衛生標準之法規限值。(The limit value(s) is/are according to “Sanitation Standard for Food Utensils, Containers and Packages (MOHW Food No. 1111303439, amended on 2023/01/11)”, Ministry of Health and Welfare of Taiwan.)

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