

## 測試報告

## Test Report

號碼(No.) : CT/2019/51343

日期(Date) : 2019/06/10

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炬榮國際有限公司

JU LONG MATERIAL CO., LTD.



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) :

送樣廠商(Sample Submitted By) : 炬榮國際有限公司 (JU LONG MATERIAL CO., LTD.)  
樣品名稱(Sample Description) : 植物纖維吸管  
樣品型號(Style/Item No.) : -  
樣品批號(Lot No.) : -  
樣品材質(Sample Material) : 植物纖維+PLA  
製造日期(Manufacturing Date) : -  
收件日期(Sample Receiving Date) : 2019/05/29  
測試期間(Testing Period) : 2019/05/29 TO 2019/06/10

### 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 was amended on 2013/08/20) to conduct test. Please refer to result table for testing item(s).

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages).

  
Signed for and on behalf of  
SGS TAIWAN LTD  
Chemical Laboratory - Taipei

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### 測試結果(Test Results)

測試部位(PART NAME)No. 1 : 棕色吸管 (BROWN STRAW)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	LOQ	結果 (Result)	限值 (Limit)
				No. 1	
鉛 / Lead (Pb)	ppm	依據食品器具、容器、包裝檢驗方法-聚乳酸(PLA)塑膠類之檢驗(107年10月4日衛授食字第1071901951號公告), 以ICP-AES分析. / According to Methods of Test for Food Utensils, Containers and Packages - Test of Polylactic Acid (PLA) Plastic Products (MOHW Food No. 1071901951 announced, Oct 04, 2018). Analysis was performed by ICP-AES.	5	n. d.	100
鎘 / Cadmium (Cd)	ppm		0.5	n. d.	100
高錳酸鉀消耗量 (水, 50°C, 4小時) / Potassium permanganate consumption (water, 50°C, 4 hr)	ppm	依據食品器具、容器、包裝檢驗方法-聚乳酸(PLA)塑膠類之檢驗(107年10月4日衛授食字第1071901951號公告). / According to Methods of Test for Food Utensils, Containers and Packages - Test of Polylactic Acid (PLA) Plastic Products (MOHW Food No. 1071901951 announced, Oct 04, 2018).	3	4.07	10
蒸發殘渣 (水, 50°C, 4小時) / Evaporation residue (water, 50°C, 4 hr)	ppm		10	n. d.	30
蒸發殘渣 (4%醋酸, 50°C, 4小時) / Evaporation residue (4% acetic acid, 50°C, 4 hr)	ppm		10	n. d.	30
蒸發殘渣 (20%酒精, 50°C, 4小時) / Evaporation residue (20% alcohol, 50°C, 4 hr)	ppm		10	n. d.	30
蒸發殘渣 (正庚烷, 25°C, 1小時) / Evaporation residue (n-Heptane, 25°C, 1 hr)	ppm		10	n. d.	30
總乳酸 (水, 50°C, 4小時) / Total lactic acid (water, 50°C, 4 hr)	ppm		5	n. d.	30

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	LOQ	結果 (Result)	限值 (Limit)
				No. 1	
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	依據食品器具、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/質譜儀檢測。 / According to Methods of Test for Food Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1071901983 announced, Oct 04, 2018). Analysis was performed by GC/MS.	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
鄰苯二甲酸丁苄基酯 (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

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	DL	結果 (Result)	限值 (Limit)
				No. 1	
重金屬(以鉛計)-(4%醋酸, 50°C, 4小時) / Heavy metal (as Pb)-(4% acetic acid, 50°C, 4 hr)	ppm	依據食品器具、容器、包裝檢驗方法-聚 乳酸(PLA)塑膠類之檢驗(107年10月4日衛 授食字第1071901951號公告)。 / According to Methods of Test for Food Utensils, Containers and Packages - Test of Polylactic Acid (PLA) Plastic Products (MOHW Food No. 1071901951 announced, Oct 04, 2018).	-	<1	1

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result)	限值 (Limit)
				No. 1	
鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No. : 117-81-7)	%	依據CNS 15138-1 (民國101年), 以氣相 層析/質譜儀檢測。 / According 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
鄰苯二甲酸丁苄基酯 / BBP (Butyl Benzyl phthalate) (CAS No. : 85-68-7)	%		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
鄰苯二甲酸二乙酯 / DEP (Diethyl phthalate) (CAS No. : 84-66-2)	%		0.003	n. d.	0.1

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### 備註(Note) :

1. 0.1wt% = 1000ppm
2. LOQ = Limit of Quantification (定量極限) ; MDL = Method Detection Limit (方法偵測極限值) ; DL = Detection Limit(偵測極限)
3. n. d. = Not Detected (未檢出) = 小於 (less than) LOQ / MDL / DL
4. "-" = Not Regulated (無規格值)
5. 測試報告僅就委託者之委託事項提供測試結果，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.)

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\* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。\*  
(The tested sample / part is marked by an arrow if it's shown on the photo.)

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\*\* 報告結尾 (End of Report) \*\*