

測試報告

Test Report

號碼(No.) : CT/2015/40585 日期(Date) : 2015/04/29 頁數(Page) : 1 of 6

路達威國際有限公司

LUDAVI INTERNATIONAL CORP.

台中市南屯區文心路一段378號6F-3

6F-3, NO. 378, SECTION 1, WENXIN RD., NANTUN DIST., TAICHUNG CITY, TAIWAN



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) : 彥豐實業有限公司 (SUNGO, INC.)
樣品名稱(Sample Description) : INSULATED WATER BOTTLE-INNER BOTTLE (雙層水壺內杯)
樣品材質(Sample Material) : PA
收件日期(Sample Receiving Date) : 2015/04/20
測試期間(Testing Period) : 2015/04/20 TO 2015/04/29

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第六條 (102.08.20部授食字第1021350146號令修正)進行以下測試: / As specified by client, with reference to Article 6 of Sanitation Standard for Food Utensils, Containers and Packages (MOHW Food No. 1021350146 was amended on 2013/08/20) to test following items:
- (1.1) 材質試驗 / Material test : 鉛 / Lead、鎘 / Cadmium.
溶出測試 / Migration test : 高錳酸鉀消耗量 / Potassium permanganate consumption、重金屬(以鉛計) / Heavy metal (as Pb)、蒸發殘渣 / Evaporation residue、己內醯胺單體 / ϵ -caprolactam Monomer、鄰苯二甲酸二(2-乙基己基)酯 (DEHP)、鄰苯二甲酸二丁酯 (DBP)、鄰苯二甲酸二異壬酯 (DINP)、鄰苯二甲酸二異癸酯 (DIDP)、鄰苯二甲酸丁苯甲酯 (BBP)、己二酸二(2-乙基己基)酯 (DEHA).
- (1.2) 材質試驗 / Material test : 鄰苯二甲酸二(2-乙基己基)酯 (DEHP)鄰苯二甲酸二丁酯 (DBP)、鄰苯二甲酸二異壬酯 (DINP)、鄰苯二甲酸二異癸酯 (DIDP)、鄰苯二甲酸丁苯甲酯 (BBP)、鄰苯二甲酸二正辛酯 (DNOP)、鄰苯二甲酸二甲酯 (DMP)、鄰苯二甲酸二乙酯 (DEP).
溶出測試 / Migration test : 著色劑 / Colouring agent.

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

結論(Conclusion) : (1.1) 根據客戶所提供的樣品, 其測試結果符合中華民國食品器具容器包裝衛生標準第六條 (102.08.20部授食字第1021350146號令修正). / Based upon the performed tests on submitted samples, the test results comply with the limits of requirements in Article 6 of Sanitation Standard for Food Utensils, Containers and Packages (MOHW Food No. 1021350146 was amended on 2013/08/20).


Troy Chang / Manager - Tech
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

測試報告

Test Report

號碼(No.) : CT/2015/40585 日期(Date) : 2015/04/29 頁數(Page) : 2 of 6

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測試結果(Test Results)

測試部位(PART NAME)No.1 : 半透明紅色塑膠 (TRANSLUCENT RED PLASTIC)

(1.1)

通過(PASS)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	定量 極限 (LOQ)	結果 (Result)	限值 (Limit)
				No.1	
鉛 / Lead (Pb)	ppm	參考食品器具、容器、包裝檢驗方法-聚醯胺(尼龍)(PA, Nylon)之檢驗(103年11月11日部授食字第1031901600號公告), 以ICP-AES分析. / With reference to Sanitation Standard for Food	5	n.d.	100
鎘 / Cadmium (Cd)	ppm	Utensils, Containers and Packages-Polyamide (PA, Nylon) (MOHW Food No. 1031901600 announced, November 11th, 2014). Analysis was performed by ICP-AES.	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	參考食品器具、容器、包裝檢驗方法-聚醯胺(尼龍)(PA, Nylon)之檢驗(103年11月11日部授食字第1031901600號公告). / With reference to Sanitation Standard for Food Utensils, Containers and Packages-Polyamide (PA, Nylon) (MOHW Food No. 1031901600 announced, November 11th, 2014).	3	n.d.	10
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	Negative	1
蒸發殘渣-(水, 95°C, 30分鐘) / Evaporation residue-(water, 95°C, 30 min)	ppm		10	n.d.	30
蒸發殘渣-(4%醋酸, 95°C, 30分鐘) / Evaporation residue-(4% acetic acid, 95°C, 30 min)	ppm		10	n.d.	30
蒸發殘渣-(正庚烷, 25°C, 1小時) / Evaporation residue-(n-Heptane, 25°C, 1 hour)	ppm		10	n.d.	30
蒸發殘渣-(20%酒精, 60°C, 30分鐘) / Evaporation residue-(20% alcohol, 60°C, 30 min)	ppm		10	n.d.	30

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測試報告

Test Report

號碼(No.) : CT/2015/40585 日期(Date) : 2015/04/29 頁數(Page) : 3 of 6

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6F-3, NO. 378, SECTION 1, WENXIN RD., NANTUN DIST., TAICHUNG CITY, TAIWAN



(1.1)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	定量 極限 (LOQ)	結果 (Result)	限值 (Limit)
				No.1	
己內醯胺單體-(20%酒精, 60°C, 30分鐘) / ε-caprolactam Monomer-(20% alcohol, 60°C, 30 min)	ppm	參考食品器具、容器、包裝檢驗方法-聚 醯胺(尼龍)(PA, Nylon)之檢驗(103年11 月11日部授食字第1031901600號公告). / With reference to Sanitation Standard for Food Utensils, Containers and Packages-Polyamide (PA, Nylon) (MOHW Food No. 1031901600 announced, November 11th, 2014).	1	n.d.	15
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 hour)	ppm	參考食品器具、容器、包裝檢驗方法-塑 膠類之檢驗(102年11月13日部授食字第 1021950607號公告), 以氣相層析/質譜 儀檢測. / With reference to Sanitation Standard for Food Utensils, Containers and Packages- Plastics (MOHW Food No. 1021950607 announced, November 13, 2013). 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 hour)	ppm		0.05	n.d.	0.3
鄰苯二甲酸丁苄甲酯 (正庚烷, 25°C, 1小 時) / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7) (n-Heptane, 25°C, 1 hour)	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 hour)	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 hour)	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 hour)	ppm		0.05	n.d.	18

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測試報告

Test Report

號碼(No.) : CT/2015/40585 日期(Date) : 2015/04/29 頁數(Page) : 4 of 6

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(1.2)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	定量 極限 (LOQ)	結果 (Result)	限值 (Limit)
				No.1	
著色劑-(水, 95°C, 30分鐘) / Colouring agent-(water, 95°C, 30 min)	**	參考食品器具、容器、包裝檢驗方法-塑膠類之檢驗(102年11月13日部授食字第1021950607號公告). / With reference to Sanitation Standard for Food Utensils, Containers and Packages-Plastics (MOHW Food No. 1021950607 announced, November 13, 2013).	-	Negative	-

(1.2)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)	限值 (Limit)
				No.1	
鄰苯二甲酸二丁酯 / DBP (Di-n-butyl phthalate) (CAS No.: 84-74-2) (*)	%	參考CNS 15138方法, 以氣相層析/質譜儀檢測之. / With reference to CNS 15138 method. Analysis was performed by GC/MS.	0.003	n.d.	0.1
鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7) (*)	%		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

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測試報告

號碼(No.) : CT/2015/40585 日期(Date) : 2015/04/29 頁數(Page) : 5 of 6

Test Report

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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)
3. n.d. = Not Detected = 小於 (less than) LOQ / MDL (未檢出)
4. 基於商業競爭及其他因素考量,除了第一頁的資料以外,顧客表示無法提供其餘與樣品相關的資料。/ Due to the commercial competition and other consideration the client can't provide information related to the submitted sample besides the information listed on the page one.
5. "-" = Not Regulated (無規格值)
6. ** = Qualitative analysis (No Unit) 定性分析(無單位)
7. Negative = Undetectable 陰性(未偵測到); Positive = Detectable 陽性(已偵測到)
8. (*) : 此項目未取得衛生福利部食品藥物管理署認證。 / The item hasn't be accredited by Taiwan FDA.
9. 測試報告僅就委託測試者之委託事項提供測試結果,至若本產品之合法性,仍應由主管機關依法判斷。(The test report is the test result issued by the testing institutions as requested by the consignor. Regarding to the legitimacy of the product, it shall be determined by the authorities according to the law.)

測試報告

Test Report

號碼(No.) : CT/2015/40585 日期(Date) : 2015/04/29 頁數(Page) : 6 of 6

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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.)

CT/2015/40585



** 報告結尾 (End of Report) **