

## 測試報告 Test Report

號碼(No.): ETF21100074

日期(Date): 28-Jan-2021

頁數(Page): 1 of 9

六和化工股份有限公司 ( UNION CHEMICAL IND. CO., LTD. )

台北市中山區德惠街9號6樓 ( 6TH FL., NO. 9, DE-HUI STREET, JHONG-SHAN DISTRICT, TAIPEI 104, 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) :

樣品名稱(Sample Description) : PET MESH FOR TEA BAG ( 茶包用PET紗 )  
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.) : 2520S  
樣品批號(Lot. No.) : OHK-210001  
樣品材質(Sample Material) : PET  
送樣廠商(Sample Submitted By) : 六和化工股份有限公司 ( UNION CHEMICAL IND. CO., LTD. )  
送樣廠商地址/電話/連絡人(Company Add/Tel/Contact Person) : -  
製造日期(Manufacturing Date) : DECEMBER, 2020  
有效日期(Expiry Date) : -  
生產廠商(Manufacturer) : 大紀商事株式會社 ( OHKI CO., LTD. )  
原產國(Country Of Origin) : 日本 ( JAPAN )

=====  
收件日(Sample Receiving Date) : 19-Jan-2021  
測試期間(Testing Period) : 19-Jan-2021 to 28-Jan-2021

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



PIN CODE: C4404FD6

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台北市中山區德惠街9號6樓 ( 6TH FL., NO. 9, DE-HUI STREET, JHONG-SHAN DISTRICT, TAIPEI 104, TAIWAN )

## 測試部位敘述(Test Part Description)

No.1 : 透明紗 (TRANSPARENT MESH)

## 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	
★鉛 / Lead (Pb)	食品器具、容器、包裝檢驗方法-聚對苯二甲酸乙二酯(PET)塑膠類之檢驗 (107年9月20日衛授食字第1071901823號公告) · 以感應耦合電漿放射光譜儀分析。 / With reference to Methods of Test for Food Utensils, Containers and Packages - Test of Polyethylene Terephthalate (PET) Plastic Products (MOHW Food No. 1071901823 announced, September 20, 2018), analysis was performed by ICP-OES.	ppm	5	n.d.	100
★鎘 / Cadmium (Cd)		ppm	0.5	n.d.	100
★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
★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

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台北市中山區德惠街9號6樓 ( 6TH FL., NO. 9, DE-HUI STREET, JHONG-SHAN DISTRICT, TAIPEI 104, TAIWAN )

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	
★鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	CNS 15138-1 (民國101年) · 以氣相層析質譜儀分析。 / With reference to CNS	%	0.003	n.d.	0.1
★鄰苯二甲酸二乙酯 / DEP (Diethyl phthalate) (CAS No.: 84-66-2)	15138-1 (2012), analysis was performed by GC/MS.	%	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)	食品器具、容器、包裝檢驗方法-聚對苯二甲酸乙二酯(PET)塑膠類之檢驗 (107年9月20日衛授食字第1071901823號公告) · /	ppm	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)	With reference to Methods of Test for Food Utensils, Containers and Packages - Test of Polyethylene Terephthalate (PET) Plastic Products (MOHW Food No. 1071901823 announced, September 20, 2018).	ppm	-	<1	1
★蒸發殘渣-(水, 95°C, 30分鐘) / Evaporation residue-(water, 95°C, 30 min)		ppm	3	n.d.	30
★銻-(4%醋酸, 95°C, 30分鐘) / Antimony (Sb)-(4% acetic acid, 95°C, 30 min)	食品器具、容器、包裝檢驗方法-聚對苯二甲酸乙二酯(PET)塑膠類之檢驗 (107年9月20日衛授食字第1071901823號公告) · 以感應耦合電漿儀質譜分析。 / With reference to Methods of Test for Food Utensils, Containers and Packages - Test of Polyethylene Terephthalate (PET) Plastic Products (MOHW Food No. 1071901823 announced, September 20, 2018), analysis was performed by ICP-MS.	ppm	0.001	n.d.	0.05
★鍺-(4%醋酸, 95°C, 30分鐘) / Germanium (Ge)-(4% acetic acid, 95°C, 30 min)		ppm	0.002	n.d.	0.1

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台北市中山區德惠街9號6樓 (6TH FL., NO. 9, DE-HUI STREET, JHONG-SHAN DISTRICT, TAIPEI 104, TAIWAN)

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	
★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

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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. mg/kg = ppm ; 0.1wt% = 1000 ppm
4. 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.)
5. n.d. = Not Detected (未檢出) = Less than (小於) LOQ/LOD
6. "-" = Not Regulated (無規格值)
7. Negative = 未檢出 / 陰性 ; Positive = 檢出 / 陽性
8. 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.)
9. 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 (amended on 2013/08/20)", Taiwan Food and Drug Administration, Ministry of Health and Welfare.)

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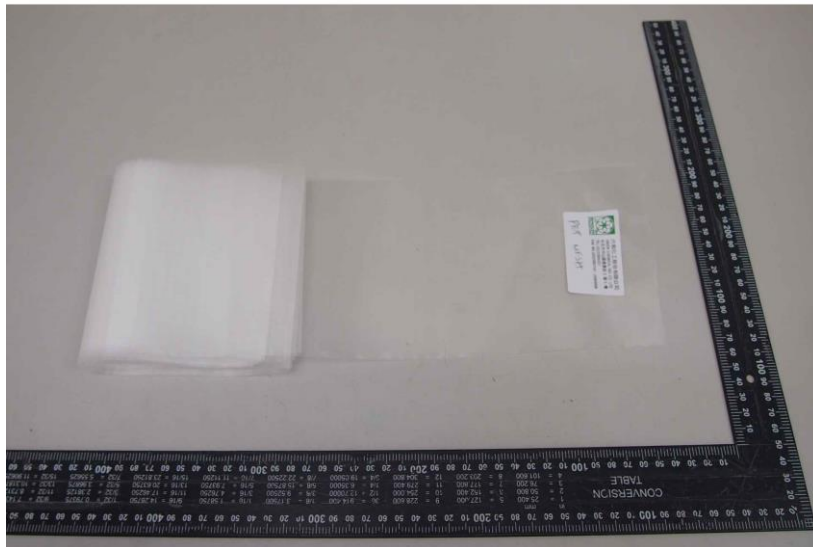
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六和化工股份有限公司 ( UNION CHEMICAL IND. CO., LTD. )

台北市中山區德惠街9號6樓 ( 6TH FL., NO. 9, DE-HUI STREET, JHONG-SHAN DISTRICT, TAIPEI 104, TAIWAN )

\* 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) \*\*

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台北市中山區德惠街9號6樓 (6TH FL., NO. 9, DE-HUI STREET, JHONG-SHAN DISTRICT, TAIPEI 104, TAIWAN)

以下為申請廠商委託測試項目、測試方法、定量/偵測極限：

(The information requested from client is shown as below :)

ETF21100074

測試項目 (Test Items)	測試方法 (Method)	LOQ/LOD
★鉛 / Lead (Pb)	食品器具、容器、包裝檢驗方法-聚對苯二甲酸乙二酯(PET)塑膠類之檢驗 (107年9月20日衛授食字第1071901823號公告) · 以感應耦合電漿放射光譜儀分析。 / With reference to Methods of Test for Food Utensils, Containers and Packages - Test of Polyethylene Terephthalate (PET) Plastic Products (MOHW Food No. 1071901823 announced, September 20, 2018), analysis was performed by ICP-OES.	詳見測試結果之定量/偵測極限。(Please refer to the result table above.)
★鎘 / Cadmium (Cd)		
★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.	
★鄰苯二甲酸二丁酯 / DBP (Di-n-butyl phthalate) (CAS No.: 84-74-2)		
★鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)		
★鄰苯二甲酸二異癸酯 / DIDP (Diisodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)		
★鄰苯二甲酸二異壬酯 / DINP (Diisononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)		
★鄰苯二甲酸二甲酯 / DMP (Dimethyl phthalate) (CAS No.: 131-11-3)		
★鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)		
★鄰苯二甲酸二乙酯 / DEP (Diethyl phthalate) (CAS No.: 84-66-2)		

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以下為申請廠商委託測試項目、測試方法、定量/偵測極限：

( The information requested from client is shown as below : )

ETF21100074

測試項目 (Test Items)	測試方法 (Method)	LOQ/LOD
★高錳酸鉀消耗量-(水, 95°C, 30分鐘) / Potassium permanganate consumption-(water, 95°C, 30 min)	食品器具、容器、包裝檢驗方法-聚對苯二甲酸乙二酯(PET)塑膠類之檢驗 (107年9月20日衛授食字第1071901823號公告) 。 / With reference to Methods of Test for Food Utensils, Containers and Packages - Test of Polyethylene Terephthalate (PET) Plastic Products (MOHW Food No. 1071901823 announced, September 20, 2018).	詳見測試結果之定量/偵測極限。(Please refer to the result table above.)
★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)		
★蒸發殘渣-(水, 95°C, 30分鐘) / Evaporation residue-(water, 95°C, 30 min)		
★銻-(4%醋酸, 95°C, 30分鐘) / Antimony (Sb)-(4% acetic acid, 95°C, 30 min)	食品器具、容器、包裝檢驗方法-聚對苯二甲酸乙二酯(PET)塑膠類之檢驗 (107年9月20日衛授食字第1071901823號公告) 。 以感應耦合電漿儀質譜分析。 / With reference to Methods of Test for Food Utensils, Containers and Packages - Test of Polyethylene Terephthalate (PET) Plastic Products (MOHW Food No. 1071901823 announced, September 20, 2018), analysis was performed by ICP-MS.	
★鍺-(4%醋酸, 95°C, 30分鐘) / Germanium (Ge)-(4% acetic acid, 95°C, 30 min)		
★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.	
★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)		
★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)		

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# 測試報告 Test Report

號碼(No.): ETF21100074

日期(Date): 28-Jan-2021

頁數(Page): 9 of 9

六和化工股份有限公司 ( UNION CHEMICAL IND. CO., LTD. )

台北市中山區德惠街9號6樓 ( 6TH FL., NO. 9, DE-HUI STREET, JHONG-SHAN DISTRICT, TAIPEI 104, TAIWAN )

以下為申請廠商委託測試項目、測試方法、定量/偵測極限：

( The information requested from client is shown as below : )

ETF21100074

測試項目 (Test Items)	測試方法 (Method)	LOQ/LOD
★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)	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.	詳見測試結果之定量/偵測極限。(Please refer to the result table above.)
★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)		
★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)		

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.)

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