

報告編號(No.): HTF25400574

報告日期(DATE): 2025/04/28

頁數(PAGE): 1 of 15

裕蘭環保科技股份有限公司(YULAN GREEN TECHNOLOGY CO., LTD.)

宜蘭縣五結鄉五濱路一段217號 (NO. 217, SEC. 1, WUBIN RD., WUJIE TOWNSHIP, YILAN COUNTY 268015, 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)	:	16oz CUP
樣品包裝/數量(Sample Package/	:	散裝(BULK PACKAGING) / 20
Quantity)		
樣品保存方式(Sample Packaging)	:	常溫(AMBIENT TEMP.)
樣品型號(Style/Item No.)	:	YL12401
樣品批號(Lot. No.)	:	-
樣品材質(Sample Material)	:	紙類(PAPER)
送樣廠商(Sample Submitted By)	:	裕蘭環保科技股份有限公司(YULAN GREEN TECHNOLOGY CO., LTD.)
送樣廠商地址/電話/聯絡人(Company	:	宜蘭縣五結鄉五濱路一段217號(NO. 217, SEC. 1, WUBIN RD., WUJIE
Add/Tel/Contact Person)		TOWNSHIP, YILAN COUNTY 268015, TAIWAN (R.O.C.)) / 03-9902900 /
		郭昕昀
製造日期(Manufacturing Date)	:	2025/2/19
有效日期(Expiry Date)	:	2026/2/19
原產地/國(Country of Origin)	:	台灣(TAIWAN)
	====	
收件日(Sample Receiving Date)	:	2025/04/17
測試期間(Testing Period)	:	2025/04/17 to 2025/04/28

測試需求 (Test Requested)

- 依據之食品衛生法規為中華民國食品器具容器包裝衛生標準 (112.01.11衛授食字第1111303439號令修正)。測試項 (1) 目與方法請參閱測試結果表格。 (According 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J. Food Drug Anal. 30(1): 11-25.方法,進行全氟/多氟烷基物質(PFAS)測試,測試項目請參閱測 試結果表格。 (As specified by client, with reference to J. Food Drug Anal. 30(1): 11-25. to conduct Per and polyfluoroalkyl substances (PFAS) 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).)





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SGS Taiwan Ltd. 台灣檢驗科技股份有限公司



# 測試報告

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**Test Report** 

裕蘭環保科技股份有限公司 (YULAN GREEN TECHNOLOGY CO., LTD.)

宜蘭縣五結鄉五濱路一段217號 (NO. 217, SEC. 1, WUBIN RD., WUJIE TOWNSHIP, YILAN COUNTY 268015, TAIWAN (R.O.C.))

#### 測試部位敘述(Test Part Description)

白色紙杯 (WHITE PAPER CUP) No.1 :

#### 測試結果(Test Results)

(1)

(1) 測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	LOQ/ LOD	結果 (Result) No.1	食品衛生 法規 (Limit)
★螢光增白劑 / Fluorescent Brightening Agents		-	-	未檢出 / Not detected	不得檢出 / Negative
★砷以As₂O₃計-(水, 95℃, 30分鐘) / Arsenic (As) (as As₂O₃)-(water, 95℃, 30 min)		ppm	0.1	<0.1	0.1
★蒸發殘渣-(水, 95℃, 30分鐘) / Evaporation residue-(water, 95℃, 30 min)		ppm	3	12	30
★甲醛-(水, 95℃, 30分鐘) / Formaldehyde- (water, 95℃, 30 min)	衛生福利部107.09.27衛授食字第 1071901922號公告修正食品器具、 容器、包裝檢驗方法-未以塑膠淋膜 紙類製品之檢驗。 / Methods of Test for Food Utensils, Containers and	ppm	4	n.d.	陰性 / Negative
★重金屬(以鉛計)-(4%醋酸, 95℃, 30分鐘) / Heavy metal (as Pb)-(4% acetic acid, 95℃, 30 min)		ppm	-	<1	1
★砷以As <sub>2</sub> O <sub>3</sub> 計-(4%醋酸, 95℃, 30分鐘) / Arsenic (As) (as As <sub>2</sub> O <sub>3</sub> )-(4% acetic acid, 95℃, 30 min)	Packages - Test of Plastic Uncoated Paper Products (MOHW Food No. 1071901922 announced,	ppm	0.1	<0.1	0.1
★蒸發殘渣-(正庚烷, 25℃, 1小時) / Evaporation residue-(n-Heptane, 25℃, 1 hr)	September 27, 2018).	ppm	3	27	30
★蒸發殘渣-(20%乙醇, 60℃, 30分鐘) / Evaporation residue-(20% ethanol, 60℃, 30 min)		ppm	3	12	30
★氯仿可溶物-(4%醋酸, 95℃, 30分鐘) / Chloroform soluble-(4% acetic acid, 95℃, 30 min)		ppm	3	n.d.	40

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(2)

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食品衛生

法規 (Limit)

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裕蘭環保科技股份有限公司 (YULAN GREEN TECHNOLOGY 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)
	(incured)	(onit)	200	No.1
單-[2-(全氟辛基)乙烷]磷酸酯及其鹽類 / Mono-[2-(perfluorooctyl)ethyl]phosphate and its salts (8:2 monoPAP and its salts) (CAS No. 57678-03-2 and its salts )		ng/dm²	5	n.d.
單[2-(全氟乙烷)乙基]磷酸鹽及其鹽類 / Mono[2-(perfluorohexyl)ethyl] Phosphate and its salts (6:2 monoPAP and its salts) (CAS No. 57678-01-0 and its salts )	參考Determination of perfluoroalkyl substances in food packaging in Taiwan using ultrasonic extraction and ultra-performance liquid	ng/dm²	5	n.d.
雙[2 - (全氟己基)乙基]磷酸鹽及其鹽類 / Bis[2-(perfluorohexyl)ethyl] Phosphate and its salts (6:2 diPAP and its salts) (CAS No. 57677-95-9 and its salts )		ng/dm²	5	n.d.
1H,1H,2H,2H-全氟-1-辛醇 / 1H,1H,2H,2H- Perfluoro-1-octanol (6:2FTOH) (CAS No. 647-42-7 )	chromatography/tandem mass spectrometry. J. Food Drug Anal. 30(1): 11-25. / With reference to	ng/dm²	100	n.d.
1H,1H,2H,2H-全氟-1-己醇 / 1H,1H,2H,2H- Perfluoro-1-hexanol (4:2FTOH) (CAS No. 2043-47-2 )	Determination of perfluoroalkyl substances in food packaging in Taiwan using ultrasonic extraction	ng/dm²	100	n.d.
1H,1H,2H,2H-全氟-1-癸醇 / 1H,1H,2H,2H- Perfluoro-1-decanol (8:2 FTOH) (CAS No. 678-39-7 )	and ultra-performance liquid chromatography/tandem mass spectrometry. J. Food Drug Anal.	ng/dm²	50	n.d.
雙(1H,1H,2H,2H-全氟癸基)磷酸酯及其鹽類 / Bis(1H,1H,2H,2H-Perfluorodecyl)phosphate and its salts (8_2diPAP and its salts) (CAS No. 678-41-1 and its salts )	,30(1): 11-25.	ng/dm²	5	n.d.
全氟十六烷酸及其鹽類/	1	ng/dm²	5	n.d.

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Perfluorohexadecanoic acid and its salts

(PFHxDA and its salts, C16) (CAS No. 67905-19-5 and its salts)



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測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	LOQ/ LOD	結果 (Result) No.1	食品衛生 法規 (Limit)
全氟十二烷酸及其鹽類 / Perfluorododecanoic acid and its salts (PFDoDA and its salts) (CAS No. 307-55-1 and its salts )	參考Determination of perfluoroalkyl substances in food packaging in Taiwan using ultrasonic extraction and ultra-performance liquid chromatography/tandem mass spectrometry. J. Food Drug Anal.	ng/dm²	5	n.d.	-
全氟十一烷酸及其鹽類 / Perfluoroundecanoic acid and its salts (PFUnDA and its salts) (CAS No. 2058-94-8 and its salts )		ng/dm²	5	n.d.	-
全氟癸酸及其鹽類 / Perfluorodecane acid and its salts (PFDA and its salts) (CAS No. 335-76-2 and its salts )		ng/dm²	5	n.d.	-
全氟已酸及其鹽類 / Perfluorohexane acid and its salts (PFHxA and its salts) (CAS No. 307-24-4 and its salts )		ng/dm²	5	n.d.	-
全氟戊酸及其鹽類 / Perfluoropentane acid and its salts (PFPA and its salts) (CAS No. 2706-90-3 and its salts )	30(1): 11-25. / With reference to Determination of perfluoroalkyl substances in food packaging in	ng/dm²	5	n.d.	-
全氟丁磺酸及其鹽類 / Perfluorobutane sulfonate and its salts (PFBS and its salts) (CAS No. 375-73-5 and its salts )	Taiwan using ultrasonic extraction and ultra-performance liquid chromatography/tandem mass	ng/dm²	5	n.d.	-
全氟丁酸及其鹽類 / Perfluorobutane acid and its salts (PFBA and its salts) (CAS No. 375-22-4 and its salts )	spectrometry. J. Food Drug Anal. 30(1): 11-25.	ng/dm²	5	n.d.	-
全氟辛酸及其鹽類 / Perfluorooctanoic acid and its salts (PFOA and its salts) (CAS No. 335-67-1 and its salts )		ng/dm²	5	n.d.	-
全氟辛烷磺酸及其鹽類 / Perfluorooctane sulfonates and its salts (PFOS and its salts) (CAS No. 1763-23-1 and its salts )		ng/dm²	5	n.d.	-

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(2)					
測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	LOQ/ LOD	結果 (Result) No.1	食品衛生 法規 (Limit)
全氟己基磺酸及其鹽類 / Perfluorohexane sulfonate and its salts (PFHxS and its salts) (CAS No. 355-46-4 and its salts )	參考Determination of perfluoroalkyl substances in food packaging in Taiwan using ultrasonic extraction and ultra-performance liquid chromatography/tandem mass spectrometry. J. Food Drug Anal. 30(1): 11-25. / With reference to Determination of perfluoroalkyl substances in food packaging in Taiwan using ultrasonic extraction and ultra-performance liquid chromatography/tandem mass spectrometry. J. Food Drug Anal. 30(1): 11-25.	ng/dm²	5	n.d.	-
全氟辛基磺醯胺及其鹽類 / Perfluoroctanesulfonamide and its salts (PFOSA and its salts) (CAS No. 754-91-6 and its salts )		ng/dm²	5	n.d.	-
N-甲基全氟正辛磺醯胺 / N-Methyl- Perfluoroctanesulfonamide (N-Me-FOSA) (CAS No. 31506-32-8)		ng/dm²	5	n.d.	-
11-氯二十氟-3-氧雜十一烷-1-磺酸及其鹽類 / 11-Chloroeicosafluoro-3-oxaundecane-1- sulfonic acid and its salts (11CI-PF3OUdS and its salts) (CAS No. 763051-92-9 and its salts )		ng/dm²	5	n.d.	-
9-氯十六氟-3-氧雜壬烷-1-磺酸及其鹽類 / 9- Chlorohexadecafluoro-3-oxanonane-1- sulfonic acid and its salts (9CI-PF3ONS and its salts) (CAS No. 756426-58-1 and its salts )		ng/dm²	5	n.d.	-
1H,1H,2H,2H-全氟十二烷磺酸及其鹽類 / 1H,1H,2H,2H-Perfluorododecane sulfonic acid and its salts (10:2 FTS and its salts) (CAS No. 120226-60-0 and its salts )		ng/dm²	5	n.d.	-
4,8-二氧雜-3H-全氟壬酸及其鹽類 / 4,8- Dioxa-3H-perfluorononanoic acid and its salts (ADONA and its salts) (CAS No. 919005-14-4 and its salts )		ng/dm²	5	n.d.	-

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(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
	(Method)	(Onit)	LOD	No.1	(Limit)
全氟戊磺酸及其鹽類 / Perfluoropentane sulfonic acid and its salts (PFPeS and its salts) (CAS No. 2706-91-4 and its salts)	參考Determination of perfluoroalkyl substances in food packaging in Taiwan using ultrasonic extraction and ultra-performance liquid chromatography/tandem mass spectrometry. J. Food Drug Anal. 30(1): 11-25. / With reference to Determination of perfluoroalkyl substances in food packaging in Taiwan using ultrasonic extraction and ultra-performance liquid chromatography/tandem mass spectrometry. J. Food Drug Anal. 30(1): 11-25.	ng/dm²	5	n.d.	-
2,3,3,3-四氟-2-(七氟丙氧基)丙酸及其鹽類 / 2,3,3,3-tetrafluoro-2- (heptafluoropropoxy)propionic acide and its salts (HFPO-DA and its salts) (CAS No. 13252-13-6 and its salts )		ng/dm²	5	n.d.	-
全氟十三烷磺酸及其鹽類 / Perfluorotridecane sulfonic acid and its salts (PFTrDS and its salts) (CAS No. 791563-89-8 and its salts )		ng/dm²	5	n.d.	-
全氟十二烷磺酸及其鹽類 / Perfluorododecane sulfonic acid and its salts (PFDoDS and its salts) (CAS No. 79780-39-5 and its salts )		ng/dm²	5	n.d.	-
全氟十一烷磺酸及其鹽類 / Perfluoroundecane sulfonic acid and its salts (PFUnDS and its salts) (CAS No. 749786-16-1 and its salts )		ng/dm²	5	n.d.	-
全氟壬烷磺酸及其鹽類 / Perfluorononane sulfonic acid and its salts (PFNS and its salts) (CAS No. 68259-12-1 and its salts )		ng/dm²	5	n.d.	-
全氟十四烷酸及其鹽類 / Perfluorotetradecanoic acid and its salts (PFTDA and its salts) (CAS No. 376-06-7 and its salts )		ng/dm²	5	n.d.	-

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測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	LOQ/ LOD	結果 (Result) No.1	食品衛生 法規 (Limit)
全氟十三烷酸及其鹽類 / Pentacosafluorotridecanoic acid and its salts (PFTrDA and its salts) (CAS No. 72629-94-8 and its salts )		ng/dm²	5	n.d.	-
全氟癸烷磺酸及其鹽類 / Perfluorodecane sulfonate and its salts (PFDS and its salts) (CAS No. 335-77-3 and its salts )		ng/dm²	5	n.d.	-
全氟壬酸及其鹽類 / Perfluorononan-1-oic acid and its salts (PFNA and its salts) (CAS No. 375-95-1 and its salts )	參考Determination of perfluoroalkyl substances in food packaging in Taiwan using ultrasonic extraction and ultra-performance liquid chromatography/tandem mass spectrometry. J. Food Drug Anal.	ng/dm²	5	n.d.	-
全氟庚基磺酸及其鹽類 / Perfluoroheptane sulfonate and its salts (PFHpS and its salts) (CAS No. 375-92-8 and its salts )		ng/dm²	5	n.d.	-
全氟庚酸及其鹽類 / Perfluoroheptane acid and its salts (PFHpA and its salts) (CAS No. 375-85-9 and its salts )	30(1): 11-25. / With reference to Determination of perfluoroalkyl substances in food packaging in Taiwan using ultrasonic extraction	ng/dm²	5	n.d.	-
1H,1H,2H,2H-全氟辛磺酸及其鹽類 / 1H,1H,2H,2H-Perfluorooctanesulphonic acid and its salts (6:2 FTS and its salts) (CAS No. 27619-97-2 and its salts )	and ultra-performance liquid chromatography/tandem mass spectrometry. J. Food Drug Anal. 30(1): 11-25.	ng/dm²	5	n.d.	-
1H,1H,2H,2H-全氟癸磺酸及其鹽類 / 1H,1H,2H,2H-Perfluorodecanesulfonic acid and its salts (8:2 FTS and its salts) (CAS No. 39108-34-4 and its salts )		ng/dm²	5	n.d.	-
1H,1H,2H,2H-全氟己磺酸及其鹽類 / 1H,1H,2H,2H-Perfluorohexanesulfonic acid and its salts (4:2 FTS and its salts) (CAS No. 757124-72-4 and its salts )		ng/dm²	5	n.d.	-

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# 測試報告

報告編號(No.): HTF25400574

報告日期(DATE): 2025/04/28

**Test Report** 

裕蘭環保科技股份有限公司 (YULAN GREEN TECHNOLOGY CO., LTD.)

宜蘭縣五結鄉五濱路一段217號 (NO. 217, SEC. 1, WUBIN RD., WUJIE TOWNSHIP, YILAN COUNTY 268015, TAIWAN (R.O.C.))

### 備註(Note):

- <sup>1.</sup> 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; ng/dm<sup>2</sup> = nanogram per square decimeter / 奈克/每100平方公分
- 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 = Negative (陰性)
- 7. "-" = Not Regulated (無規格值)
- 8. Negative = 未檢出 / 陰性; Positive = 檢出 / 陽性
- 9. 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.)
- 10. 法規標準值係依據衛生福利部112年01月11日衛授食字第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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# 測試報告

報告編號(No.): HTF25400574

報告日期(DATE): 2025/04/28

頁數(PAGE): 9 of 15

**Test Report** 

裕蘭環保科技股份有限公司 (YULAN GREEN TECHNOLOGY CO., LTD.)

宜蘭縣五結鄉五濱路一段217號 (NO. 217, SEC. 1, WUBIN RD., WUJIE TOWNSHIP, YILAN COUNTY 268015, TAIWAN (R.O.C.))

> \*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.)



# HTF25400574

\*\* 報告結尾 (End of Report) \*\*

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報告編號(No.): HTF25400574

報告日期(DATE): 2025/04/28

頁數(PAGE): 10 of 15

裕蘭環保科技股份有限公司 (YULAN GREEN TECHNOLOGY CO., LTD.)

宜蘭縣五結鄉五濱路一段217號 (NO. 217, SEC. 1, WUBIN RD., WUJIE TOWNSHIP, YILAN COUNTY 268015, TAIWAN (R.O.C.))

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 :)

HTF25400574

測試項目 (Test Items)	測試方法 (Method)	LOQ/LOD
	(Method) 衛生福利部107.09.27衛授食字第1071901922 號公告修正食品器具、容器、包裝檢驗方法-未 以塑膠淋膜紙類製品之檢驗。 / Methods of Test for Food Utensils, Containers and Packages - Test of Plastic Uncoated Paper Products (MOHW Food No. 1071901922 announced, September 27, 2018).	LOQ/LOD 詳見測試結果之定量/偵測極 限。(Please refer to the result table above.)
★蒸發殘渣-(20%乙醇, 60℃, 30分鐘) / Evaporation residue-(20% ethanol, 60℃, 30 min) ★氯仿可溶物-(4%醋酸, 95℃, 30分鐘) / Chloroform soluble-(4% acetic acid, 95℃, 30 min)		

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報告編號(No.): HTF25400574

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裕蘭環保科技股份有限公司 (YULAN GREEN TECHNOLOGY CO., LTD.)

宜蘭縣五結鄉五濱路一段217號 (NO. 217, SEC. 1, WUBIN RD., WUJIE TOWNSHIP, YILAN COUNTY 268015, TAIWAN (R.O.C.))

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 :)

HTF25400574

測試項目 (Test Items)	測試方法 (Method)	LOQ/LOD
單-[2-(全氟辛基)乙烷]磷酸酯及其鹽類 / Mono-[2-(perfluorooctyl)ethyl]phosphate and its salts (8:2 monoPAP and its salts) (CAS No. 57678-03-2 and its salts ) 單[2-(全氟乙烷)乙基]磷酸鹽及其鹽類 / Mono[2-(perfluorohexyl)ethyl] Phosphate and its salts (6:2 monoPAP and its salts)		
(CAS No. 57678-01-0 and its salts) 雙[2 - (全氟己基)乙基]磷酸鹽及其鹽類 / Bis[2-(perfluorohexyl)ethyl] Phosphate and its salts (6:2 diPAP and its salts) (CAS No. 57677-95-9 and its salts) (CAS No. 57677-95-9 and its salts ) 1H,1H,2H,2H-全氟-1-辛醇 / 1H,1H,2H,2H- Perfluoro-1-octanol (6:2FTOH) (CAS No. 647-42-7 )	參考Determination of perfluoroalkyl substances in food packaging in Taiwan using ultrasonic extraction and ultra-performance liquid chromatography/tandem mass spectrometry. J. Food Drug Anal. 30(1): 11-25.	詳見測試結果之定量/偵測極
1H,1H,2H,2H-全氟-1-己醇 / 1H,1H,2H,2H- Perfluoro-1-hexanol (4:2FTOH) (CAS No. 2043-47-2) 1H,1H,2H,2H-全氟-1-癸醇 / 1H,1H,2H,2H- Perfluoro-1-decanol (8:2 FTOH) (CAS No. 678-39-7)	/ With reference to Determination of	限。(Please refer to the result table above.)
雙(1H,1H,2H,2H-全氟癸基)磷酸酯及其鹽類 / Bis(1H,1H,2H,2H-Perfluorodecyl)phosphate and its salts (8_2diPAP and its salts) (CAS No. 678-41-1 and its salts )		
全氟十六烷酸及其鹽類 / Perfluorohexadecanoic acid and its salts (PFHxDA and its salts, C16) (CAS No. 67905-19-5 and its salts )		

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頁數(PAGE): 12 of 15

裕蘭環保科技股份有限公司 (YULAN GREEN TECHNOLOGY CO., LTD.)

宜蘭縣五結鄉五濱路一段217號 (NO. 217, SEC. 1, WUBIN RD., WUJIE TOWNSHIP, YILAN COUNTY 268015, TAIWAN (R.O.C.))

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 :)

HTF25400574

測試項目 (Test Items)	測試方法 (Method)	LOQ/LOD
全氟十三烷酸及其鹽類 / Perfluorododecanoic acid and its salts (PFDoDA and its salts) (CAS No. 307-55-1 and its salts ) 全氟十一烷酸及其鹽類 / Perfluoroundecanoic acid and its salts (PFUnDA and its salts) (CAS No. 2058-94-8 and its salts ) 全氟癸酸及其鹽類 / Perfluorodecane acid and its salts (PFDA and its salts) (CAS No. 335-76-2 and its salts) (CAS No. 335-76-2 and its salts) (CAS No. 307-24-4 and its salts) (CAS No. 2706-90-3 and its salts) (CAS No. 2706-90-3 and its salts) (CAS No. 2706-90-3 and its salts) (CAS No. 375-73-5 and its salts) (CAS No. 375-73-5 and its salts) (CAS No. 375-22-4 and its salts) (CAS No. 375-22-4 and its salts) (CAS No. 375-22-4 and its salts) (CAS No. 375-73-5 and its salts) (CAS No. 375-73-7 and its salts)	參考Determination of perfluoroalkyl substances in food packaging in Taiwan using ultrasonic extraction and ultra-performance liquid chromatography/tandem mass spectrometry. J. Food Drug Anal. 30(1): 11-25. / With reference to Determination of perfluoroalkyl substances in food packaging in Taiwan using ultrasonic extraction and ultra- performance liquid chromatography/tandem mass spectrometry. J. Food Drug Anal. 30(1): 11-25.	詳見測試結果之定量/偵測極 限。(Please refer to the result table above.)

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報告編號(No.): HTF25400574

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裕蘭環保科技股份有限公司 (YULAN GREEN TECHNOLOGY CO., LTD.)

宜蘭縣五結鄉五濱路一段217號 (NO. 217, SEC. 1, WUBIN RD., WUJIE TOWNSHIP, YILAN COUNTY 268015, TAIWAN (R.O.C.))

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 :)

HTF25400574

測試項目 (Test Items)	測試方法 (Method)	LOQ/LOD
全氟己基磺酸及其鹽類 / Perfluorohexane sulfonate and its salts (PFHxS and its salts) (CAS No. 355-46-4 and its salts ) 全氟辛基磺醯胺及其鹽類 / Perfluoroctanesulfonamide and its salts (PFOSA and its salts) (CAS No. 754-91-6 and its salts ) N-甲基全氟正辛磺醯胺 / N-Methyl- Perfluoroctanesulfonamide (N-Me-FOSA) (CAS No. 31506-32-8 ) 11-氯二十氟-3-氧雜十一烷-1-磺酸及其鹽類 / 11-Chloroeicosafluoro-3-oxaundecane-1- sulfonic acid and its salts (11CI-PF3OUdS and its salts) (CAS No. 763051-92-9 and its salts ) 9-氯十六氟-3-氧雜壬烷-1-磺酸及其鹽類 / 9- Chlorohexadecafluoro-3-oxanonane-1- sulfonic acid and its salts (9CI-PF3ONS and its salts) (CAS No. 756426-58-1 and its salts ) 1H,1H,2H,2H-全氟十二烷磺酸及其鹽類 / 1H,1H,2H,2H-Perfluorododecane sulfonic acid and its salts (10:2 FTS and its salts) (CAS No. 120226-60-0 and its salts ) 4,8-二氧雜-3H-全氟壬酸及其鹽類 / 4,8- Dioxa-3H-perfluorononanoic acid and its	參考Determination of perfluoroalkyl substances in food packaging in Taiwan using ultrasonic extraction and ultra-performance liquid chromatography/tandem mass spectrometry. J. Food Drug Anal. 30(1): 11-25. / With reference to Determination of	
salts (ADONA and its salts) (CAS No. 919005-14-4 and its salts )		

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報告編號(No.): HTF25400574

報告日期(DATE): 2025/04/28

頁數(PAGE): 14 of 15

裕蘭環保科技股份有限公司 (YULAN GREEN TECHNOLOGY CO., LTD.)

宜蘭縣五結鄉五濱路一段217號 (NO. 217, SEC. 1, WUBIN RD., WUJIE TOWNSHIP, YILAN COUNTY 268015, TAIWAN (R.O.C.))

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 :)

HTF25400574

測試項目 (Test Items)	測試方法 (Method)	LOQ/LOD
(Test Items)全氟戊磺酸及其鹽類 / Perfluoropentane sulfonic acid and its salts (PFPeS and its salts) (CAS No. 2706-91-4 and its salts )2,3,3,3-四氟-2-(七氟丙氧基)丙酸及其鹽類 / 2,3,3,3-tetrafluoro-2- (heptafluoropropoxy)propionic acide and its salts (HFPO-DA and its salts) 	(Method) 考Determination of perfluoroalkyl bstances in food packaging in Taiwan using rasonic extraction and ultra-performance uid chromatography/tandem mass ectrometry. J. Food Drug Anal. 30(1): 11-25. With reference to Determination of	

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報告編號(No.): HTF25400574

報告日期(DATE): 2025/04/28

頁數(PAGE): 15 of 15

裕蘭環保科技股份有限公司 (YULAN GREEN TECHNOLOGY CO., LTD.)

宜蘭縣五結鄉五濱路一段217號 (NO. 217, SEC. 1, WUBIN RD., WUJIE TOWNSHIP, YILAN COUNTY 268015, TAIWAN (R.O.C.))

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 :) HTF25400574

測試項目 (Test Items)	測試方法 (Method)	LOQ/LOD
全氟十三烷酸及其鹽類 / Pentacosafluorotridecanoic acid and its salts (PFTrDA and its salts) (CAS No. 72629-94-8 and its salts) 全氟癸烷磺酸及其鹽類 / Perfluorodecane sulfonate and its salts (PFDS and its salts) (CAS No. 335-77-3 and its salts) (CAS No. 335-77-3 and its salts) (CAS No. 335-77-3 and its salts) (CAS No. 375-95-1 and its salts) (CAS No. 375-95-1 and its salts) (CAS No. 375-95-1 and its salts) (CAS No. 375-92-8 and its salts) (CAS No. 375-85-9 and its salts) (CAS No. 375-85-9 and its salts) (CAS No. 375-85-9 and its salts) (CAS No. 27619-97-2 and its salts) (CAS No. 39108-34-4 and its salts) (CAS No. 39108-34-4 and its salts) (CAS No. 39108-34-4 and its salts) (CAS No. 757124-72-4 and its salts) (CAS No. 757124-72-4 and its salts)	參考Determination of perfluoroalkyl substances in food packaging in Taiwan using ultrasonic extraction and ultra-performance liquid chromatography/tandem mass spectrometry. J. Food Drug Anal. 30(1): 11-25. / With reference to Determination of perfluoroalkyl substances in food packaging in Taiwan using ultrasonic extraction and ultra- performance liquid chromatography/tandem mass spectrometry. J. Food Drug Anal. 30(1): 11-25.	詳見測試結果之定量/偵測極 限。(Please refer to the result table above.)

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.)

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