

報告編號(No.): HTF25400575

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) : 90mm CUP LID

樣品包裝/數量(Sample Package/ : 散裝 (BULK PACKAGING) / 40

Quantity)

樣品保存方式(Sample Packaging) : 常溫 (AMBIENT TEMP.)

樣品型號(Style/Item No.) : YL12304

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) : 2024/11/7 有效日期(Expiry Date) : 2025/11/7

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)

(1) 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).)

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

報告簽署人



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



測試報告

報告編號(No.): HTF25400575

報告日期(DATE): 2025/04/28

頁數(PAGE): 2 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.))

測試部位敘述(Test Part Description)

No.1 : 白色紙蓋 (WHITE PAPER LID)

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) 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As ₂ O ₃ 計-(水, 95°C, 30分鐘) / Arsenic (As) (as As ₂ O ₃)-(water, 95°C, 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	13	30
★甲醛-(水, 95°C, 30分鐘) / Formaldehyde- (water, 95°C, 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 Packages - Test of Plastic Uncoated Paper Products (MOHW Food No. 1071901922 announced, September 27, 2018).	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 ₂ O ₃ 計-(4%醋酸, 95℃, 30分鐘) / Arsenic (As) (as As ₂ O ₃)-(4% acetic acid, 95℃, 30 min)		ppm	0.1	<0.1	0.1
★蒸發殘渣-(20%乙醇, 60°C, 30分鐘) / Evaporation residue-(20% ethanol, 60°C, 30 min)		ppm	3	19	30
★氯仿可溶物-(4%醋酸, 95°C, 30分鐘) / Chloroform soluble-(4% acetic acid, 95°C, 30 min)		ppm	3	3	40
★氯仿可溶物-(正庚烷, 25°C, 1小時) / Chloroform soluble-(n-Heptane, 25°C, 1 hr)		ppm	3	19	40

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



報告編號(No.): HTF25400575

報告日期(DATE): 2025/04/28

頁數(PAGE): 3 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.))

(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)
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)		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)	参考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	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)		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. 30(1): 11-25.	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)		ng/dm²	5	n.d.	-
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)		ng/dm²	5	n.d.	1



報告編號(No.): HTF25400575

報告日期(DATE): 2025/04/28

頁數(PAGE): 4 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.))

(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)
全氟十三烷酸及其鹽類 / Perfluorododecanoic acid and its salts (PFDoDA 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	No.1 n.d.	-
(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)		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 spectrometry. J. Food Drug Anal. 30(1): 11-25.	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)		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.	-



報告編號(No.): HTF25400575

報告日期(DATE): 2025/04/28

頁數(PAGE): 5 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.))

(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)	参考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.	-



報告編號(No.): HTF25400575 報告日期(DATE): 2025/04/28

頁數(PAGE): 6 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.))

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



報告編號(No.): HTF25400575

報告日期(DATE): 2025/04/28

頁數(PAGE): 7 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.))

(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
全氟十三烷酸及其鹽類 / Pentacosafluorotridecanoic acid and its		ng/dm²	5	No.1 n.d.	(Limit) -
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)	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)		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.	-



報告編號(No.): HTF25400575

報告日期(DATE): 2025/04/28

頁數(PAGE): 8 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.))

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; ng/dm² = 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.)



報告編號(No.): HTF25400575

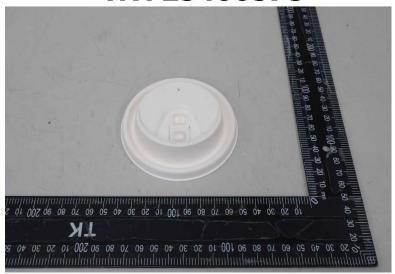
報告日期(DATE): 2025/04/28

頁數(PAGE): 9 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.))

* 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.)

HTF25400575



** 報告結尾 (End of Report) **



報告編號(No.): HTF25400575

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:)

HTF25400575

測試項目 (Test Items)	測試方法 (Method)	LOQ/LOD
★螢光增白劑 / Fluorescent Brightening Agents ★砷以As ₂ O ₃ 計-(水, 95°C, 30分鐘) / Arsenic (As) (as As ₂ O ₃)-(water, 95°C, 30 min) ★蒸發殘渣-(水, 95°C, 30分鐘) / Evaporation residue-(water, 95°C, 30 min) ★甲醛-(水, 95°C, 30分鐘) / Formaldehyde-(water, 95°C, 30 min) ★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) ★神以As ₂ O ₃ 計-(4%醋酸, 95°C, 30分鐘) / Arsenic (As) (as As ₂ O ₃)-(4% acetic acid, 95°C, 30 min) ★蒸發殘渣-(20%乙醇, 60°C, 30分鐘) / Evaporation residue-(20% ethanol, 60°C, 30 min) ★氯仿可溶物-(4%醋酸, 95°C, 30分鐘) / Chloroform soluble-(4% acetic acid, 95°C, 30 min) ★氯仿可溶物-(正庚烷, 25°C, 1小時) / Chloroform soluble-(n-Heptane, 25°C, 1 hr)	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).	詳見測試結果之定量/偵測極限。(Please refer to the result table above.)



報告編號(No.): HTF25400575

報告日期(DATE): 2025/04/28

頁數(PAGE): 11 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:)

HTF25400575

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) 第[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) (CAS No. 57678-01-0 and its salts) (E2 - (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) (CAS No. 647-42-7) 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) 雙(1H,1H,2H,2H-全氟-1-癸醇 / 1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) (CAS No. 678-39-7) 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) (CAS No. 678-41-1 and its salts)	参考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.)

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



報告編號(No.): HTF25400575

報告日期(DATE): 2025/04/28

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:)

HTF25400575

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) 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) (CAS No. 307-24-4 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. 335-67-1 and its salts) 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)	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.)

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



報告編號(No.): HTF25400575

報告日期(DATE): 2025/04/28

頁數(PAGE): 13 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:)

HTF25400575

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) (CAS No. 355-46-4 and its salts) (PFOSA and its salts) (PFOSA and its salts) (CAS No. 754-91-6 and its salts) (CAS No. 754-91-6 and its salts) (CAS No. 31506-32-8) (CAS No. 31506-32-8) (CAS No. 31506-32-8) (CAS No. 763051-92-9 and its salts) (CAS No. 756426-58-1 and its salts) (CAS No. 756426-60-0 and its salts) (CAS No. 120226-60-0 and its salts) (CAS No. 120226-60-0 and its salts)	参考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	
Dioxa-3H-perfluorononanoic acid and its salts (ADONA and its salts) (CAS No. 919005-14-4 and its salts)		

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



報告編號(No.): HTF25400575

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:)

HTF25400575

測試項目	測試方法	LOQ/LOD
(Test Items)	(Method)	
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) (CAS No. 13252-13-6 and its salts)		
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)	參考Determination of perfluoroalkyl substances in food packaging in Taiwan using ultrasonic extraction and ultra-performance liquid chromatography/tandem mass	
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)	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-	詳見測試結果之定量/偵測極限。(Please refer to the result table above.)
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)	performance liquid chromatography/tandem mass spectrometry. J. Food Drug Anal. 30(1): 11-25.	
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)		
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)		

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



報告編號(No.): HTF25400575

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:)

HTF25400575

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. 375-95-1 and its salts) (CAS No. 375-95-1 and its salts) (CAS No. 375-92-8 and its salts) (CAS No. 375-92-8 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. 27619-97-2 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. 375124-72-4 and its salts) (CAS No. 757124-72-4 and its salts)	参考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.)

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.