

# 測試報告 Test Report

報告編號(No.): HTF23C00796

報告日期(DATE): 2024/01/09

頁數(PAGE): 1 of 10

勵億塑膠股份有限公司 ( LIYIH PLASTICS CO., LTD. )

新北市新莊區民安東路178-180號 ( NO.178-180, MIN-AN E. RD., XINZHUANG DIST., NEW TAIPEI CITY 242, 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) : PET / AL / CPP FILM  
樣品包裝/數量(Sample Package/Quantity) : 散裝 ( BULK PACKAGING ) / 3~5米  
樣品保存方式(Sample Packaging) : 常溫 ( AMBIENT TEMP. )  
樣品型號(Style/Item No.) : -  
樣品批號(Lot. No.) : -  
樣品材質(Sample Material) : PET / AL / CPP  
送樣廠商(Sample Submitted By) : 勵億塑膠股份有限公司 ( LIYIH PLASTICS CO., LTD. )  
送樣廠商地址/電話/聯絡人(Company Add/Tel/Contact Person) : 新北市新莊區民安東路178-180號(NO.178-180, MIN-AN E. RD., XINZHUANG DIST., NEW TAIPEI CITY 242, TAIWAN (R.O.C.)) / 02-22032266 / -  
製造日期(Manufacturing Date) : -  
有效日期(Expiry Date) : -  
原產國(Country of Origin) : 台灣 ( TAIWAN )

收件日(Sample Receiving Date) : 2023/12/28  
測試期間(Testing Period) : 2023/12/28 to 2024/01/09

## 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 (112.01.11衛授食字第1111303439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. 1111303439, amended on 2023/01/11) to conduct test. Please refer to the result table(s) for testing item(s).)
- 依據客戶指定，參考中華民國食品安全衛生管理法 (108.06.12) 第26條進行測試。測試項目請參閱測試結果表格。(As specified by client, with reference to Act Governing Food Sanitation Article 26 (amended and promulgated on 2019/06/12) 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



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### 測試部位敘述(Test Part Description)

- No.1 : 軟性包材(整體樣品) (FLEXIBLE PACKAGING (WHOLE SAMPLE))  
No.2 : 軟性包材(與食物接觸面) (FLEXIBLE PACKAGING (FOOD CONTACT SIDE))

### 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)		食品衛生 法規 (Limit)
				No.1	No.2	
★高錳酸鉀消耗量-(水, 95°C, 30分鐘) / Potassium permanganate consumption- (water, 95°C, 30 min)	衛生福利部107.09.17衛授食字第 1071901787號公告修正食品器具、 容器、包裝檢驗方法-聚丙烯塑膠類 之檢驗。 / Methods of Test for Food Utensils, Containers and Packages - Test of Polypropylene (PP) Plastic Products (MOHW Food No. 1071901787 announced, September 17, 2018).	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)		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
★蒸發殘渣-(4%醋酸, 95°C, 30分鐘) / Evaporation residue-(4% acetic acid, 95°C, 30 min)		ppm	3	---	n.d.	30
★蒸發殘渣-(正庚烷, 25°C, 1小時) / Evaporation residue-(n-Heptane, 25°C, 1 hr)		ppm	3	---	4	150 (*2)
★蒸發殘渣-(20%乙醇, 60°C, 30分鐘) / Evaporation residue-(20% ethanol, 60°C, 30 min)		ppm	3	---	n.d.	30

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測試報告  
Test Report

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頁數(PAGE): 3 of 10

勵億塑膠股份有限公司 ( LIYIH PLASTICS CO., LTD. )

新北市新莊區民安東路178-180號 ( NO.178-180, MIN-AN E. RD., XINZHUANG DIST., NEW TAIPEI CITY 242, TAIWAN (R.O.C.) )

(1)

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	No.2	
★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)	衛生福利部107.10.04衛授食字第1071901983號公告修正食品器具、容器、包裝檢驗方法-塑膠類之檢驗。 / Methods of Test for Food Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1071901983 announced, October 04, 2018).	ppm	0.05	---	n.d.	30
★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
★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(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	0.05	---	n.d.	1.5
★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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測試報告  
Test Report

報告編號(No.): HTF23C00796

報告日期(DATE): 2024/01/09

頁數(PAGE): 4 of 10

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新北市新莊區民安東路178-180號 ( NO.178-180, MIN-AN E. RD., XINZHUANG DIST., NEW TAIPEI CITY 242, TAIWAN (R.O.C.) )

(1)

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	No.2	
鉛 / Lead (Pb)	衛生福利部107.10.04衛授食字第1071901983號公告修正食品器具、容器、包裝檢驗方法-塑膠類之檢驗。 / Methods of Test for Food Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1071901983 announced, October 04, 2018).	ppm	5	n.d.	---	100
鎘 / Cadmium (Cd)	註：實驗室擴充原方法適用基質，非屬衛生福利部該項認證範圍。 /Remark: The test method was applied to the material out of the scope from MOHW accreditation.	ppm	0.5	n.d.	---	100
鄰苯二甲酸二乙酯 / DEP (Diethyl phthalate) (CAS No.: 84-66-2)	CNS 15138-1 · Z8139-1：塑膠製品中鄰苯二甲酸酯類塑化劑試驗法-第1部-氣相層析質譜法。 / CNS 15138-1 Z8139-1 Method of test for determination of phthalates plasticizers in plastic products - Part 1: Gas chromatography/mass spectrometry. 註：實驗室擴充原方法適用基質，非屬衛生福利部該項認證範圍。 /Remark: The test method was applied to the material out of the scope from MOHW accreditation.	%	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
鄰苯二甲酸二甲酯 / DMP (Dimethyl phthalate) (CAS No.: 131-11-3)		%	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
鄰苯二甲酸丁苄甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)		%	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
鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7)		%	0.003	n.d.	---	0.1

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# 測試報告

## Test Report

報告編號(No.): HTF23C00796

報告日期(DATE): 2024/01/09

頁數(PAGE): 5 of 10

勵億塑膠股份有限公司 ( LIYIH PLASTICS CO., LTD. )

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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 (Limit)
				No.1	No.2	
★耐熱性試驗 / Heat Tolerance (100°C, 1 h)	衛生福利部106.11.13衛授食字第 1061902219號公告修正塑膠類食品 器具容器包裝之耐熱溫度標示符合性 試驗方法。 / Methods of Test for Labeling Conformance of Heat Tolerance of Plastic Food Utensils, Containers and Packages (MOHW Food No. 1061902219 announced, November 13, 2017).	-	-	功能性正常 · 無變褪色 / No appearance change	---	功能性正常 · 無變褪色 / No appearance change

**備註(Note) :**

- 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.)
- 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.)
- 本報告不得分離或擷錄使用。(The report is invalid if it is partly reproduced or used.)
- mg/kg = ppm ; 0.1wt% = 1000 ppm
- 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.)
- n.d. = Not Detected (未檢出) = Less than (小於) LOQ/LOD
- "-" = Not Regulated (無規格值)
- "---" = Not Conducted (未測項目)
- (\*2): 針對加工及調理過程溫度100°C以下之產品。(For the products which are heated to not higher than 100°C during food processing and cooking.)

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報告日期(DATE): 2024/01/09

頁數(PAGE): 6 of 10

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10. 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.)
11. 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.)
12. 法規標準值係依據衛生福利部108年06月12日總統令 食品安全衛生管理法第26條之法規規定。(The limit value(s) is/are according to “ Act Governing Food Sanitation Article 26 (amended and promulgated on 2019/06/12)”, Ministry of Health and Welfare of Taiwan.)

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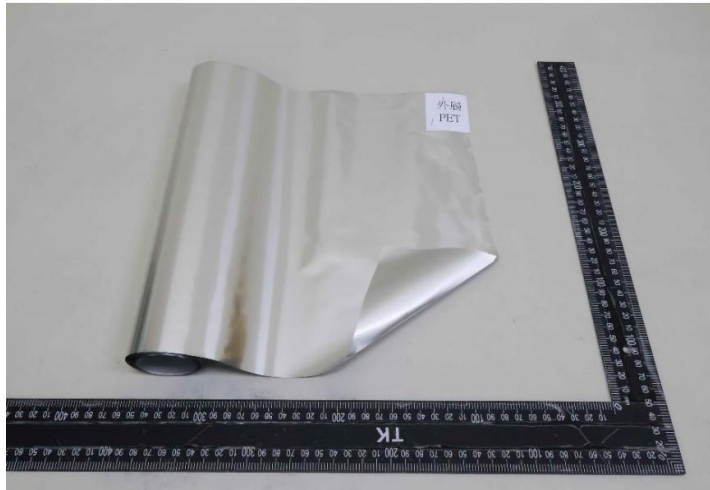
頁數(PAGE): 7 of 10

勵億塑膠股份有限公司 ( LIYIH PLASTICS CO., LTD. )

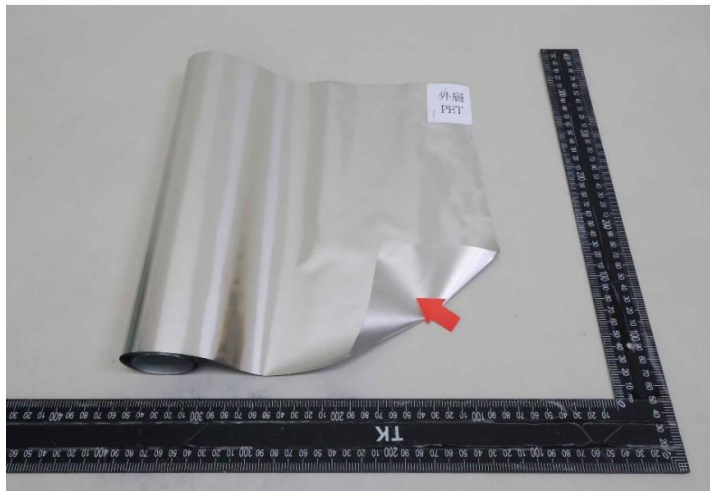
新北市新莊區民安東路178-180號 ( NO.178-180, MIN-AN E. RD., XINZHUANG DIST., NEW TAIPEI CITY 242, TAIWAN (R.O.C.) )

\* 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.)

### HTF23C00796 NO.1



### HTF23C00796 NO.2



**\*\* 報告結尾 (End of Report) \*\***

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報告編號(No.): HTF23C00796

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頁數(PAGE): 8 of 10

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新北市新莊區民安東路178-180號 ( NO.178-180, MIN-AN E. RD., XINZHUANG DIST., NEW TAIPEI CITY 242, 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 : )  
HTF23C00796

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)	衛生福利部107.09.17衛授食字第1071901787號公告修正食品器具、容器、包裝檢驗方法-聚丙烯塑膠類之檢驗。 / Methods of Test for Food Utensils, Containers and Packages - Test of Polypropylene (PP) Plastic Products (MOHW Food No. 1071901787 announced, September 17, 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)		
★蒸發殘渣-(4%醋酸, 95°C, 30分鐘) / Evaporation residue-(4% acetic acid, 95°C, 30 min)		
★蒸發殘渣-(正庚烷, 25°C, 1小時) / Evaporation residue-(n-Heptane, 25°C, 1 hr)		
★蒸發殘渣-(20%乙醇, 60°C, 30分鐘) / Evaporation residue-(20% ethanol, 60°C, 30 min)		
★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)	衛生福利部107.10.04衛授食字第1071901983號公告修正食品器具、容器、包裝檢驗方法-塑膠類之檢驗。 / Methods of Test for Food Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1071901983 announced, October 04, 2018).	
★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)		

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測試報告  
Test Report

報告編號(No.): HTF23C00796

報告日期(DATE): 2024/01/09

頁數(PAGE): 9 of 10

勵億塑膠股份有限公司 ( LIYIH PLASTICS CO., LTD. )

新北市新莊區民安東路178-180號 ( NO.178-180, MIN-AN E. RD., XINZHUANG DIST., NEW TAIPEI CITY 242, 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 : )

HTF23C00796

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)	衛生福利部107.10.04衛授食字第1071901983號公告修正食品器具、容器、包裝檢驗方法-塑膠類之檢驗。 / Methods of Test for Food Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1071901983 announced, October 04, 2018).	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(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)		
★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)		
鉛 / Lead (Pb)	衛生福利部107.10.04衛授食字第1071901983號公告修正食品器具、容器、包裝檢驗方法-塑膠類之檢驗。 / Methods of Test for Food Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1071901983 announced, October 04, 2018).	
鎘 / Cadmium (Cd)	註：實驗室擴充原方法適用基質，非屬衛生福利部該項認證範圍。 / Remark: The test method was applied to the material out of the scope from MOHW accreditation.	
鄰苯二甲酸二乙酯 / DEP (Diethyl phthalate) (CAS No.: 84-66-2)	CNS 15138-1 · Z8139-1：塑膠製品中鄰苯二甲酸酯類塑化劑試驗法-第1部-氣相層析質譜法。 / CNS 15138-1 Z8139-1 Method of test for determination of phthalates plasticizers in plastic products - Part 1: Gas chromatography/mass spectrometry.	
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	註：實驗室擴充原方法適用基質，非屬衛生福利部該項認證範圍。 / Remark: The test method was applied to the material out of the scope from MOHW accreditation.	
鄰苯二甲酸二甲酯 / DMP (Dimethyl phthalate) (CAS No.: 131-11-3)	註：實驗室擴充原方法適用基質，非屬衛生福利部該項認證範圍。 / Remark: The test method was applied to the material out of the scope from MOHW accreditation.	

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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 : )

HTF23C00796

測試項目 (Test Items)	測試方法 (Method)	LOQ/LOD
鄰苯二甲酸二異壬酯 / DINP (Diisononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)	CNS 15138-1 · Z8139-1：塑膠製品中鄰苯二甲酸酯類塑化劑試驗法-第1部-氣相層析質譜法。 / CNS 15138-1 Z8139-1 Method of test for determination of phthalates plasticizers in plastic products - Part 1: Gas chromatography/mass spectrometry. 註：實驗室擴充原方法適用基質，非屬衛生福利部該項認證範圍。 / Remark: The test method was applied to the material out of the scope from MOHW accreditation.	詳見測試結果之定量/偵測極限。(Please refer to the result table above.)
鄰苯二甲酸二異癸酯 / DIDP (Diisodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)		
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)		
鄰苯二甲酸二丁酯 / DBP (Di-n-butyl phthalate) (CAS No.: 84-74-2)		
鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7)		
★耐熱性試驗 / Heat Tolerance (100°C, 1 h)	衛生福利部106.11.13衛授食字第1061902219號公告修正塑膠類食品器具容器包裝之耐熱溫度標示符合性試驗方法。 / Methods of Test for Labeling Conformance of Heat Tolerance of Plastic Food Utensils, Containers and Packages (MOHW Food No. 1061902219 announced, November 13, 2017).	

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.)