

保存年限	
檔 號	

財團法人全國認證基金會 書函

地 址：300 新竹市北大路九五號二樓

電 話：(03)五三三六三三三

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受文者：上準環境科技股份有限公司

速別：普通件

密等及解密條件：普

發文日期：2025 年 04 月 09 日

發文字號：TAF-L169825001

附件：如文

正本交尚書、鄭智、
玲琦。

114.04.10

主旨： 貴公司化學實驗室(認證編號:1698)之實驗室_測試領域實驗室延展認證申請案，業經評鑑認可，請 查照。

- 說明： 一、復 貴公司 2024/10/07 實驗室延展認證申請書。
- 二、本案經認證決定審查通過，檢附本會 L1698-250408 號中、英文認證證書各一份。
- 三、 貴公司化學實驗室(認證編號:1698)的認可後監督評鑑訂於 2026 年 5 月辦理。
- 查核重點包括但不限於：
1. 報告修訂(若有)的修訂識別。
 2. 戴奧辛及戴奧辛類多氯聯苯毒性當量總和值之結果計算，如未檢出之化合物的原始計算值。
 3. 影響結果的定容器皿每二年之校正及允收判定紀錄。
 4. 計算與數據傳輸過程之查核與紀錄。
 5. 試驗委託前的試驗方法已傳達給顧客知曉。
- 四、提醒實驗室應依「使用認證標誌與宣稱認可要求(TAF-CNLA-R03)」，正確使用認證標誌與宣稱認可身份，如欲使用「獲認證實驗室 ILAC MRA 組合標記」(Accredited Lab Combined ILAC MRA Mark)於發出報告或相關廣宣品展示時，除應熟讀相關規定，並應與本會完成簽署本會 2015 年 12 月底公告之「ILAC-MRA 組合標記使用合約書(TAF-CNLA-B03)」第三版後，方可使用。
- 五、請於兩週內上網填寫「實驗室滿意度問卷調查表」。

正本： 上準環境科技股份有限公司

副本：

財團法人全國認證基金會



財團法人全國認證基金會
Taiwan Accreditation Foundation

認 證 證 書

(證書編號：L1698-250408)

茲證明

上準環境科技股份有限公司

化學實驗室

臺中市西屯區工業 36 路 41 號

為本會認證之實驗室

認 證 依 據：ISO/IEC 17025：2017；CNS 17025：2018

認 證 編 號：1698

初 次 認 證 日 期：九十六年四月十六日

認 證 有 效 期 間：一百一十四年四月十六日至一百一十七年四月十五
日止

認 證 範 圍：測試領域，如續頁

董事長

陳怡鈴



掃描確認真偽

中華民國一一四年四月八日

認證編號：1698

實驗室主管：楊尚書

09. 99 食品

水產動物類

C227 戴奧辛類多氯聯苯

衛生福利部 112.08.15 衛授食字第 1121901392 號公告修正食品中戴奧辛/呋喃及多氯聯苯之檢驗方法(MOHWO0026.01)

3,4,4',5-TeCB(81): (0.0091 to 457) pg/g ww
3,3',4,4'-TeCB(77): (0.0149 to 457) pg/g ww
2',3,4,4',5-PeCB(123): (0.0137 to 457) pg/g ww
2,3',4,4',5-PeCB(118): (0.0166 to 457) pg/g ww
2,3,4,4',5-PeCB(114): (0.0080 to 457) pg/g ww
2,3,3',4,4'-PeCB(105): (0.0149 to 457) pg/g ww
3,3',4,4',5-PeCB(126): (0.0091 to 457) pg/g ww
2,3',4,4',5,5'-HxCB(167): (0.0069 to 457) pg/g ww
2,3,3',4,4',5-HxCB(156): (0.0086 to 457) pg/g ww
2,3,3',4,4',5'-HxCB(157): (0.0080 to 457) pg/g ww
3,3',4,4',5,5'-HxCB(169): (0.0103 to 457) pg/g ww
2,3,3',4,4',5,5'-HpCB(189): (0.0097 to 457) pg/g ww
戴奧辛類多氯聯苯含量總和 (pg WHO-PCB-TEQ/g ww)

報告簽署人:陳貝貞;蕭旭志

C227 戴奧辛及呋喃檢測

衛生福利部 112.08.15 衛授食字第 1121901392 號公告修正食品中戴奧辛/呋喃及多氯聯苯之檢驗方法(MOHWO0026.01)

2,3,7,8-TeCDF: (0.0029 to 11) pg/g ww
1,2,3,7,8-PeCDF: (0.0097 to 57) pg/g ww
2,3,4,7,8-PeCDF: (0.0103 to 57) pg/g ww
1,2,3,4,7,8-HxCDF: (0.0126 to 57) pg/g ww
1,2,3,6,7,8-HxCDF: (0.0074 to 57) pg/g ww
2,3,4,6,7,8-HxCDF: (0.0097 to 57) pg/g ww
1,2,3,7,8,9-HxCDF: (0.0103 to 57) pg/g ww
1,2,3,4,6,7,8-HpCDF: (0.0143 to 57) pg/g ww
1,2,3,4,7,8,9-HpCDF: (0.0126 to 57) pg/g ww
OCDF:(0.0406 to 114) pg/g ww
2,3,7,8-TeCDD: (0.0034 to 11) pg/g ww
1,2,3,7,8-PeCDD: (0.0131 to 57) pg/g ww
1,2,3,4,7,8-HxCDD: (0.0120 to 57) pg/g ww
1,2,3,6,7,8-HxCDD: (0.0120 to 57) pg/g ww
1,2,3,7,8,9-HxCDD: (0.0023 to 57) pg/g ww
1,2,3,4,6,7,8-HpCDD: (0.0137 to 57) pg/g ww
OCDD: (0.0491 to 114) pg/g ww



戴奧辛/呋喃含量總和 (pg WHO-PCDD/F-TEQ/g ww)

戴奧辛與戴奧辛類多氯聯苯含量總和 (pg WHO-PCDD/F-PCB-TEQ/g ww)

報告簽署人:陳貝貞; 蕭旭志

C227 六項指標性非戴奧辛類多氯聯苯

衛生福利部 112.08.15 衛授食字第 1121901392 號公告修正食品中戴奧辛/呋喃及多氯聯苯之檢驗方法(MOHWO0026.01)

2,4,4'-TriCB(28): (0.0003 to 1.42) ng/g ww

2,2',5,5'-TeCB(52): (0.0003 to 1.42) ng/g ww

2,2',4,5,5'-PeCB(101): (0.0003 to 1.42) ng/g ww

2,2',4,4',5,5'-HxCB(153): (0.0003 to 1.42) ng/g ww

2,2',3,4,4',5'-HxCB(138): (0.0003 to 1.42) ng/g ww

2,2',3,4,4',5,5'-HpCB(180): (0.0003 to 1.42) ng/g ww

六項指標性非戴奧辛類多氯聯苯含量總和 (ng/g ww)

報告簽署人:陳貝貞; 蕭旭志

09. 99 食品

蛋類

C227 六項指標性非戴奧辛類多氯聯苯

衛生福利部 112.08.15 衛授食字第 1121901392 號公告修正食品中戴奧辛/呋喃及多氯聯苯之檢驗方法(MOHWO0026.01)

2,4,4'-TriCB(28): (0.0033 to 16.6) ng/g fat

2,2',5,5'-TeCB(52): (0.0033 to 16.6) ng/g fat

2,2',4,5,5'-PeCB(101): (0.0033 to 16.6) ng/g fat

2,2',4,4',5,5'-HxCB(153): (0.0033 to 16.6) ng/g fat

2,2',3,4,4',5'-HxCB(138): (0.0033 to 16.6) ng/g fat

2,2',3,4,4',5,5'-HpCB(180): (0.0033 to 16.6) ng/g fat

六項指標性非戴奧辛類多氯聯苯含量總和 (ng/g fat)

報告簽署人:陳貝貞; 蕭旭志

C227 戴奧辛及呋喃

衛生福利部 112.08.15 衛授食字第 1121901392 號公告修正食品中戴奧辛/呋喃及多氯聯苯之檢驗方法(MOHWO0026.01)

2,3,7,8-TeCDF: (0.034 to 133) pg/g fat

1,2,3,7,8-PeCDF: (0.114 to 666) pg/g fat

2,3,4,7,8-PeCDF: (0.120 to 666) pg/g fat

1,2,3,4,7,8-HxCDF: (0.147 to 666) pg/g fat

1,2,3,6,7,8-HxCDF: (0.087 to 666) pg/g fat

2,3,4,6,7,8-HxCDF: (0.114 to 666) pg/g fat

1,2,3,7,8,9-HxCDF: (0.120 to 666) pg/g fat

1,2,3,4,6,7,8-HpCDF: (0.167 to 666) pg/g fat



1,2,3,4,7,8,9-HpCDF: (0.147 to 666) pg/g fat
 OCDF: (0.474 to 1333) pg/g fat
 2,3,7,8-TeCDD: (0.040 to 133) pg/g fat
 1,2,3,7,8-PeCDD: (0.154 to 666) pg/g fat
 1,2,3,4,7,8-HxCDD: (0.140 to 666) pg/g fat
 1,2,3,6,7,8-HxCDD: (0.140 to 666) pg/g fat
 1,2,3,7,8,9-HxCDD: (0.027 to 666) pg/g fat
 1,2,3,4,6,7,8-HpCDD: (0.160~666) pg/g fat
 OCDD: (0.574 to 1333) pg/g fat
 戴奧辛/呋喃含量總和 (pg WHO-PCDD/F-TEQ/g fat)
 戴奧辛與戴奧辛類多氯聯苯含量總和 (pg WHO-PCDD/F-PCB-TEQ/g fat)

報告簽署人:陳貝貞;蕭旭志

C227 戴奧辛類多氯聯苯

衛生福利部 112.08.15 衛授食字第 1121901392 號公告修正食品中戴奧辛/呋喃及多氯聯苯之檢驗方法(MOHWO0026.01)

3,4,4',5'-TeCB(81): (0.107 to 5333) pg/g fat
 3,3',4,4'-TeCB(77): (0.174 to 5333) pg/g fat
 2',3,4,4',5'-PeCB(123): (0.160 to 5333) pg/g fat
 2,3',4,4',5'-PeCB(118): (0.194 to 5333) pg/g fat
 2,3,4,4',5'-PeCB(114): (0.094 to 5333) pg/g fat
 2,3,3',4,4'-PeCB(105): (0.174 to 5333) pg/g fat
 3,3',4,4',5'-PeCB(126): (0.107 to 5333) pg/g fat
 2,3',4,4',5,5'-HxCB(167): (0.080 to 5333) pg/g fat
 2,3,3',4,4',5'-HxCB(156): (0.100 to 5333) pg/g fat
 2,3,3',4,4',5'-HxCB(157): (0.094 to 5333) pg/g fat
 3,3',4,4',5,5'-HxCB(169): (0.120 to 5333) pg/g fat
 2,3,3',4,4',5,5'-HpCB(189): (0.114 to 5333) pg/g fat
 戴奧辛類多氯聯苯含量總和 (pg WHO-PCB-TEQ/g fat)

報告簽署人:陳貝貞;蕭旭志

09. 99 食品

禽畜類

C227 戴奧辛類多氯聯苯

衛生福利部 112.08.15 衛授食字第 1121901392 號公告修正食品中戴奧辛/呋喃及多氯聯苯之檢驗方法(MOHWO0026.01)

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 2,3,3',4,4'-PeCB(105): (0.174 to 5333) pg/g fat
 3,3',4,4',5'-PeCB(126): (0.107 to 5333) pg/g fat
 2,3',4,4',5,5'-HxCB(167): (0.080 to 5333) pg/g fat



2,3,3',4,4',5-HxCB(156): (0.100 to 5333) pg/g fat
2,3,3',4,4',5'-HxCB(157): (0.094 to 5333) pg/g fat
3,3',4,4',5,5'-HxCB(169): (0.120 to 5333) pg/g fat
2,3,3',4,4',5,5'-HpCB(189): (0.114 to 5333) pg/g fat
戴奧辛類多氯聯苯含量總和 (pg WHO-PCB-TEQ/g fat)

報告簽署人:陳貝貞; 蕭旭志

C227 戴奧辛及呋喃檢測

衛生福利部 112.08.15 衛授食字第 1121901392 號公告修正食品中戴奧辛/呋喃及多氯聯苯之檢驗方法(MOHWO0026.01)

2,3,7,8-TeCDF: (0.034 to 133) pg/g fat
1,2,3,7,8-PeCDF: (0.114 to 666) pg/g fat
2,3,4,7,8-PeCDF: (0.120 to 666) pg/g fat
1,2,3,4,7,8-HxCDF: (0.147 to 666) pg/g fat
1,2,3,6,7,8-HxCDF: (0.087 to 666) pg/g fat
2,3,4,6,7,8-HxCDF: (0.114 to 666) pg/g fat
1,2,3,7,8,9-HxCDF: (0.120 to 666) pg/g fat
1,2,3,4,6,7,8-HpCDF: (0.167 to 666) pg/g fat
1,2,3,4,7,8,9-HpCDF: (0.147 to 666) pg/g fat
OCDF: (0.474 to 1333) pg/g fat
2,3,7,8-TeCDD: (0.040 to 133) pg/g fat
1,2,3,7,8-PeCDD: (0.154 to 666) pg/g fat
1,2,3,4,7,8-HxCDD: (0.140 to 666) pg/g fat
1,2,3,6,7,8-HxCDD: (0.140 to 666) pg/g fat
1,2,3,7,8,9-HxCDD: (0.027 to 666) pg/g fat
1,2,3,4,6,7,8-HpCDD: (0.160 to 666) pg/g fat
OCDD: (0.574 to 1333) pg/g fat
戴奧辛/呋喃含量總和 (pg WHO-PCDD/F-TEQ/g fat)
戴奧辛與戴奧辛類多氯聯苯含量總和 (pg WHO-PCDD/F-PCB-TEQ/g fat)

報告簽署人:陳貝貞; 蕭旭志

C227 六項指標性非戴奧辛類多氯聯苯

衛生福利部 112.08.15 衛授食字第 1121901392 號公告修正食品中戴奧辛/呋喃及多氯聯苯之檢驗方法(MOHWO0026.01)

2,4,4'-TriCB(28): (0.0033 to 16.6) ng/g fat
2,2',5,5'-TeCB(52): (0.0033 to 16.6) ng/g fat
2,2',4,5,5'-PeCB(101): (0.0033 to 16.6) ng/g fat
2,2',4,4',5,5'-HxCB(153): (0.0033 to 16.6) ng/g fat
2,2',3,4,4',5'-HxCB(138): (0.0033 to 16.6) ng/g fat
2,2',3,4,4',5,5'-HpCB(180): (0.0033 to 16.6) ng/g fat
六項指標性非戴奧辛類多氯聯苯含量總和 (ng/g fat)

報告簽署人:陳貝貞; 蕭旭志



12. 01 農業產品

飼料

C227 戴奧辛及呋喃檢測

自訂方法-戴奧辛及呋喃檢測方法標準作業程序(文件編號：ER-MSOP-C-011)

2,3,7,8-TeCDF: (0.028 to 200) pg/g DW
 1,2,3,7,8-PeCDF: (0.050 to 1000) pg/g DW
 2,3,4,7,8-PeCDF: (0.054 to 1000) pg/g DW
 1,2,3,4,7,8-HxCDF: (0.036 to 1000) pg/g DW
 1,2,3,6,7,8-HxCDF: (0.044 to 1000) pg/g DW
 2,3,4,6,7,8-HxCDF: (0.046 to 1000) pg/g DW
 1,2,3,7,8,9-HxCDF: (0.052 to 1000) pg/g DW
 1,2,3,4,6,7,8-HpCDF: (0.096 to 1000) pg/g DW
 1,2,3,4,7,8,9-HpCDF: (0.036 to 1000) pg/g DW
 OCDF: (0.266 to 2000) pg/g DW
 2,3,7,8-TeCDD: (0.014 to 200) pg/g DW
 1,2,3,7,8-PeCDD: (0.042 to 1000) pg/g DW
 1,2,3,4,7,8-HxCDD: (0.048 to 1000) pg/g DW
 1,2,3,6,7,8-HxCDD: (0.032 to 1000) pg/g DW
 1,2,3,7,8,9-HxCDD: (0.044 to 1000) pg/g DW
 1,2,3,4,6,7,8-HpCDD: (0.052 to 1000) pg/g DW
 OCDD: (0.476 to 2000) pg/g DW
 戴奧辛/呋喃含量總和 (pg I-TEQ/g DW)

報告簽署人:陳貝貞;蕭旭志

13. 01 環境保護

飲用水

C243 全氟與多氟化合物

自訂方法-水中全氟與多氟化合物檢測方法標準作業程序(文件編號：ER-MSOP-B-091)

1.全氟丁酸：(28.9 to 1.15 E+07) ng/L
 2.全氟戊酸：(144 to 2.89 E+07) ng/L
 3.全氟己酸：(3.63 to 2.90 E+06) ng/L
 4.全氟辛酸：(3.59 to 2.86 E+06) ng/L
 5.全氟壬酸：(3.59 to 2.86 E+06) ng/L
 6.全氟癸酸：(3.57 to 2.86 E+06) ng/L
 7.全氟 1H,1H,2H,2H,己烷磺酸 (4:2)(4:2 氟調聚物磺酸)：(14.4 to 1.15 E+07) ng/L
 8.全氟丁基磺酸：(3.61 to 2.89 E+06) ng/L
 9.全氟戊基磺酸：(3.57 to 2.86 E+06) ng/L
 10.全氟 1H,1H,2H,2H,辛烷磺酸 (6:2)(6:2 氟調聚物磺酸)：(14.2 to 1.14 E+07) ng/L
 11.全氟己烷磺酸：(3.61 to 2.89 E+06) ng/L
 12.全氟庚烷磺酸：(3.63 to 2.90 E+06) ng/L
 13.全氟 1H,1H,2H,2H,癸烷磺酸(8:2)(8:2 氟調聚物磺酸)：(14.4 to 1.16 E+07) ng/L
 14.全氟辛烷磺酸：(3.63 to 2.90 E+06) ng/L
 15.全氟壬烷磺酸：(70.9 to 1.42 E+07) ng/L



- 16.六氟環氧丙烷二聚體酸：(3.57 to 2.86 E+06) ng/L
- 17.4,8-二氧雜-3H-全氟壬酸：(3.60 to 2.87 E+06) ng/L
- 18.9-氟十六氟-3-氧雜壬烷-1-磺酸：(3.50 to 2.80 E+06) ng/L
- 19.3-全氟丙基丙酸：(142 to 2.84 E+07) ng/L
- 20.2H,2H,3H,3H-全氟辛酸：(35.9 to 2.86 E+07) ng/L
- 21.3-全氟庚基丙酸：(36.1 to 2.89 E+07) ng/L
- 22.全氟(2-乙氧基乙烷)磺酸：(71.4 to 1.43 E+07) ng/L
- 23.全氟-3-甲氧基丙酸：(3.60 to 2.87 E+06) ng/L
- 24.全氟-4-甲氧基丙酸：(3.53 to 2.83 E+06) ng/L

報告簽署人:徐卉明; 陳貝貞

13. 04 環境保護

廢棄物(包括廢液、廢溶劑及廢油料)

C042 閃火點

NIEA R210.2

(40.0 to 360) °C

報告簽署人:劉子華; 劉穎沛

(以下空白)





財團法人全國認證基金會
Taiwan Accreditation Foundation

Certificate of Accreditation

(Certificate No : L1698-250408)

This is to certify that

Sun Dream Environmental Technology Corporation
Chemical Laboratory

No. 41, 36th Rd., Taichung industrial park, Taichung City, R.O.C.

is accredited in respect of laboratory

Accreditation Criteria : ISO/IEC 17025:2017 ; CNS 17025:2018

Accreditation Number : 1698

Originally Accredited : April 16, 2007

Effective Period : April 16, 2025 to April 15, 2028

Accredited Scope : Testing Field, see described in the Appendix

Yi-Ling Chen



Scan to verify

Yi-Ling Chen
President, Taiwan Accreditation Foundation
April 08, 2025

Accreditation Number : 1698

Laboratory Head : YANG, Shang-Shu

■ 09. 99 Foods

aquatic livestock

C227 Dioxin-like PCBs

MOHW No.1121901392 Method of Test for Dioxins and Dioxin-like PCBs in Foods
(MOHW00026.01)

3,4,4',5-TeCB(81): (0.0091 to 457) pg/g ww
3,3',4,4'-TeCB(77): (0.0149 to 457) pg/g ww
2',3,4,4',5-PeCB(123): (0.0137 to 457) pg/g ww
2,3',4,4',5-PeCB(118): (0.0166 to 457) pg/g ww
2,3,4,4',5-PeCB(114): (0.0080 to 457) pg/g ww
2,3,3',4,4'-PeCB(105): (0.0149 to 457) pg/g ww
3,3',4,4',5-PeCB(126): (0.0091 to 457) pg/g ww
2,3',4,4',5,5'-HxCB(167): (0.0069 to 457) pg/g ww
2,3,3',4,4',5-HxCB(156): (0.0086 to 457) pg/g ww
2,3,3',4,4',5'-HxCB(157): (0.0080 to 457) pg/g ww
3,3',4,4',5,5'-HxCB(169): (0.0103 to 457) pg/g ww
2,3,3',4,4',5,5'-HpCB(189): (0.0097 to 457) pg/g ww
Total Dioxin-like PCBs (pg WHO-PCB-TEQ/g ww)

Approval Signatory: CHEN, Pei-Chen; HSIAO, Hsu-Chih

C227 Dioxin and Furan Analysis

MOHW No.1121901392 Method of Test for Dioxins and Dioxin-like PCBs in Foods
(MOHW00026.01)

2,3,7,8-TeCDF: (0.0029 to 11) pg/g ww
1,2,3,7,8-PeCDF: (0.0097 to 57) pg/g ww
2,3,4,7,8-PeCDF: (0.0103 to 57) pg/g ww
1,2,3,4,7,8-HxCDF: (0.0126 to 57) pg/g ww
1,2,3,6,7,8-HxCDF: (0.0074 to 57) pg/g ww
2,3,4,6,7,8-HxCDF: (0.0097 to 57) pg/g ww
1,2,3,7,8,9-HxCDF: (0.0103 to 57) pg/g ww
1,2,3,4,6,7,8-HpCDF: (0.0143 to 57) pg/g ww
1,2,3,4,7,8,9-HpCDF: (0.0126 to 57) pg/g ww
OCDF: (0.0406 to 114) pg/g ww
2,3,7,8-TeCDD: (0.0034 to 11) pg/g ww
1,2,3,7,8-PeCDD: (0.0131 to 57) pg/g ww
1,2,3,4,7,8-HxCDD: (0.0120 to 57) pg/g ww
1,2,3,6,7,8-HxCDD: (0.0120 to 57) pg/g ww
1,2,3,7,8,9-HxCDD: (0.0023 to 57) pg/g ww
1,2,3,4,6,7,8-HpCDD: (0.0137 to 57) pg/g ww
OCDD: (0.0491 to 114) pg/g ww
Total Dioxins and Furans (pg WHO-PCDD/F-TEQ/g ww)
Total Dioxins/ Furans and Dioxin like PCBs (pg WHO-PCDD/F-PCB-TEQ/g ww)

Approval Signatory: CHEN, Pei-Chen; HSIAO, Hsu-Chih

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The Appendix forms an integral part of this Certificate, which shall be invalid when use without the Appendix



C227 Six Non-Dioxin-Like Polychlorinated Biphenyls (ICES-6)
MOHW No.1121901392 Method of Test for Dioxins and Dioxin-like PCBs in Foods
(MOHWO0026.01)

2,4,4'-TriCB(28): (0.0003 to 1.42) ng/g ww
2,2',5,5'-TeCB(52): (0.0003 to 1.42) ng/g ww
2,2',4,5,5'-PeCB(101): (0.0003 to 1.42) ng/g ww
2,2',4,4',5,5'-HxCB(153): (0.0003 to 1.42) ng/g ww
2,2',3,4,4',5'-HxCB(138): (0.0003 to 1.42) ng/g ww
2,2',3,4,4',5,5'-HpCB(180): (0.0003 to 1.42) ng/g ww
Total Six Non-Dioxin-Like Polychlorinated Biphenyls (ng/g ww)

Approval Signatory: CHEN, Pei-Chen; HSIAO, Hsu-Chih

■ 09.99 Foods

Egg

C227 Six Non-Dioxin-Like Polychlorinated Biphenyls (ICES-6)
MOHW No.1121901392 Method of Test for Dioxins and Dioxin-like PCBs in Foods
(MOHWO0026.01)

2,4,4'-TriCB(28): (0.0033 to 16.6) ng/g fat
2,2',5,5'-TeCB(52): (0.0033 to 16.6) ng/g fat
2,2',4,5,5'-PeCB(101): (0.0033 to 16.6) ng/g fat
2,2',4,4',5,5'-HxCB(153): (0.0033 to 16.6) ng/g fat
2,2',3,4,4',5'-HxCB(138): (0.0033 to 16.6) ng/g fat
2,2',3,4,4',5,5'-HpCB(180): (0.0033 to 16.6) ng/g fat
Total Six Non-Dioxin-Like Polychlorinated Biphenyls (ng/g fat)

Approval Signatory: CHEN, Pei-Chen; HSIAO, Hsu-Chih

C227 Dioxin and Furan

MOHW No.1121901392 Method of Test for Dioxins and Dioxin-like PCBs in Foods
(MOHWO0026.01)

2,3,7,8-TeCDF: (0.034 to 133) pg/g fat
1,2,3,7,8-PeCDF: (0.114 to 666) pg/g fat
2,3,4,7,8-PeCDF: (0.120 to 666) pg/g fat
1,2,3,4,7,8-HxCDF: (0.147 to 666) pg/g fat
1,2,3,6,7,8-HxCDF: (0.087 to 666) pg/g fat
2,3,4,6,7,8-HxCDF: (0.114 to 666) pg/g fat
1,2,3,7,8,9-HxCDF: (0.120 to 666) pg/g fat
1,2,3,4,6,7,8-HpCDF: (0.167 to 666) pg/g fat
1,2,3,4,7,8,9-HpCDF: (0.147 to 666) pg/g fat
OCDF: (0.474 to 1333) pg/g fat
2,3,7,8-TeCDD: (0.040 to 133) pg/g fat
1,2,3,7,8-PeCDD: (0.154 to 666) pg/g fat
1,2,3,4,7,8-HxCDD: (0.140 to 666) pg/g fat
1,2,3,6,7,8-HxCDD: (0.140 to 666) pg/g fat
1,2,3,7,8,9-HxCDD: (0.027 to 666) pg/g fat

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The Appendix forms an integral part of this Certificate, which shall be invalid when use without the Appendix



1,2,3,4,6,7,8-HpCDD: (0.160~666) pg/g fat
 OCDD: (0.574 to 1333) pg/g fat
 Total Dioxins and Furan (pg WHO-PCDD/F-TEQ/g fat)
 Total Dioxins/ Furans and Dioxin-like PCBs (pg WHO-PCDD/F-PCB-TEQ/g fat)

Approval Signatory: CHEN, Pei-Chen; HSIAO, Hsu-Chih

C227 Dioxin-like PCBs

MOHW No.1121901392 Method of Test for Dioxins and Dioxin-like PCBs in Foods
 (MOHWO0026.01)

3,4,4',5-TeCB(81): (0.107 to 5333) pg/g fat
 3,3',4,4'-TeCB(77): (0.174 to 5333) pg/g fat
 2',3,4,4',5-PeCB(123): (0.160 to 5333) pg/g fat
 2,3',4,4',5-PeCB(118): (0.194 to 5333) pg/g fat
 2,3,4,4',5-PeCB(114): (0.094 to 5333) pg/g fat
 2,3,3',4,4'-PeCB(105): (0.174 to 5333) pg/g fat
 3,3',4,4',5-PeCB(126): (0.107 to 5333) pg/g fat
 2,3',4,4',5,5'-HxCB(167): (0.080 to 5333) pg/g fat
 2,3,3',4,4',5-HxCB(156): (0.100 to 5333) pg/g fat
 2,3,3',4,4',5'-HxCB(157): (0.094 to 5333) pg/g fat
 3,3',4,4',5,5'-HxCB(169): (0.120 to 5333) pg/g fat
 2,3,3',4,4',5,5'-HpCB(189): (0.114 to 5333) pg/g fat
 Total Dioxin-like PCBs (pg WHO-PCB-TEQ/g fat)

Approval Signatory: CHEN, Pei-Chen; HSIAO, Hsu-Chih

09.99 Foods

Poultry and livestock

C227 Dioxin-like PCBs

MOHW No.1121901392 Method of Test for Dioxins and Dioxin-like PCBs in Foods
 ((MOHWO0026.01)

3,4,4',5-TeCB(81): (0.107 to 5333) pg/g fat
 3,3',4,4'-TeCB(77): (0.174 to 5333) pg/g fat
 2',3,4,4',5-PeCB(123): (0.160 to 5333) pg/g fat
 2,3',4,4',5-PeCB(118): (0.194 to 5333) pg/g fat
 2,3,4,4',5-PeCB(114): (0.094 to 5333) pg/g fat
 2,3,3',4,4'-PeCB(105): (0.174 to 5333) pg/g fat
 3,3',4,4',5-PeCB(126): (0.107 to 5333) pg/g fat
 2,3',4,4',5,5'-HxCB(167): (0.080 to 5333) pg/g fat
 2,3,3',4,4',5-HxCB(156): (0.100 to 5333) pg/g fat
 2,3,3',4,4',5'-HxCB(157): (0.094 to 5333) pg/g fat
 3,3',4,4',5,5'-HxCB(169): (0.120 to 5333) pg/g fat
 2,3,3',4,4',5,5'-HpCB(189): (0.114 to 5333) pg/g fat
 Total Dioxin-like PCBs (pg WHO-PCB-TEQ/g fat)

Approval Signatory: CHEN, Pei-Chen; HSIAO, Hsu-Chih



C227 Six Non-Dioxin-Like Polychlorinated Biphenyls (ICES-6)
MOHW No.1121901392 Method of Test for Dioxins and Dioxin-like PCBs in Foods
(MOHWO0026.01)

2,4,4'-TriCB(28): (0.0033 to 16.6) ng/g fat
2,2',5,5'-TeCB(52): (0.0033 to 16.6) ng/g fat
2,2',4,5,5'-PeCB(101): (0.0033 to 16.6) ng/g fat
2,2',4,4',5,5'-HxCB(153): (0.0033 to 16.6) ng/g fat
2,2',3,4,4',5'-HxCB(138): (0.0033 to 16.6) ng/g fat
2,2',3,4,4',5,5'-HpCB(180): (0.0033 to 16.6) ng/g fat
Total Six Non-Dioxin-Like Polychlorinated Biphenyls (ng/g fat)

Approval Signatory: CHEN, Pei-Chen; HSIAO, Hsu-Chih

■ 09.99 Foods

Poultry and livestock

C227 Dioxin and Furan Analysis
MOHW No.1121901392 Method of Test for Dioxins and Dioxin-like PCBs in Foods
(MOHWO0026.01)

2,3,7,8-TeCDF: (0.034 to 133) pg/g fat
1,2,3,7,8-PeCDF: (0.114 to 666) pg/g fat
2,3,4,7,8-PeCDF: (0.120 to 666) pg/g fat
1,2,3,4,7,8-HxCDF: (0.147 to 666) pg/g fat
1,2,3,6,7,8-HxCDF: (0.087 to 666) pg/g fat
2,3,4,6,7,8-HxCDF: (0.114 to 666) pg/g fat
1,2,3,7,8,9-HxCDF: (0.120 to 666) pg/g fat
1,2,3,4,6,7,8-HpCDF: (0.167 to 666) pg/g fat
1,2,3,4,7,8,9-HpCDF: (0.147 to 666) pg/g fat
OCDF: (0.474 to 1333) pg/g fat
2,3,7,8-TeCDD: (0.040 to 133) pg/g fat
1,2,3,7,8-PeCDD: (0.154 to 666) pg/g fat
1,2,3,4,7,8-HxCDD: (0.140 to 666) pg/g fat
1,2,3,6,7,8-HxCDD: (0.140 to 666) pg/g fat
1,2,3,7,8,9-HxCDD: (0.027 to 666) pg/g fat
1,2,3,4,6,7,8-HpCDD: (0.160 to 666) pg/g fat
OCDD: (0.574 to 1333) pg/g fat
Total Dioxins and Furans (pg WHO-PCDD/F-TEQ/g fat)
Total Dioxins/ Furans and Diovin-like PCBs (pg WHO-PCDD/F-PCB-TEQ/g fat)

Approval Signatory: CHEN, Pei-Chen; HSIAO, Hsu-Chih

■ 12.01 Agricultural Products

Feeds

C227 Dioxin and Furan Analysis

In house method : SOP of detection methods for Dioxin and furan (Doc. No. : ER-MSOP-C-011)

2,3,7,8-TeCDF: (0.028 to 200) pg/g DW
1,2,3,7,8-PeCDF: (0.050 to 1000) pg/g DW

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2,3,4,7,8-PeCDF: (0.054 to 1000) pg/g DW
 1,2,3,4,7,8-HxCDF: (0.036 to 1000) pg/g DW
 1,2,3,6,7,8-HxCDF: (0.044 to 1000) pg/g DW
 2,3,4,6,7,8-HxCDF: (0.046 to 1000) pg/g DW
 1,2,3,7,8,9-HxCDF: (0.052 to 1000) pg/g DW
 1,2,3,4,6,7,8-HpCDF: (0.096 to 1000) pg/g DW
 1,2,3,4,7,8,9-HpCDF: (0.036 to 1000) pg/g DW
 OCDF: (0.266 to 2000) pg/g DW
 2,3,7,8-TeCDD: (0.014 to 200) pg/g DW
 1,2,3,7,8-PeCDD: (0.042 to 1000) pg/g DW
 1,2,3,4,7,8-HxCDD: (0.048 to 1000) pg/g DW
 1,2,3,6,7,8-HxCDD: (0.032 to 1000) pg/g DW
 1,2,3,7,8,9-HxCDD: (0.044 to 1000) pg/g DW
 1,2,3,4,6,7,8-HpCDD: (0.052 to 1000) pg/g DW
 OCDD: (0.476 to 2000) pg/g DW
 Total Dioxins and Furans (pg I-TEQ/g DW)

Approval Signatory: CHEN, Pei-Chen; HSIAO, Hsu-Chih

13. 01 Environmental Protection

Drinking Water

C243 Perfluoroalkyl and Polyfluoroalkyl Substances(PFAS)

In house method : SOP of detection methods for per- and polyfluorinated compounds in water.(Doc. No. : ER-MSOP-B-091)

- 1.Perfluorobutanoic acid(PFBA) : (28.9 to 1.15 E+07) ng/L
- 2.Perfluoropentanoic acid(PFPeA) : (144 to 2.89 E+07) ng/L
- 3.Perfluorohexanoic acid(PFHxA) : (3.63 to 2.90 E+06) ng/L
- 4.Perfluorooctanoic acid(PFOA) : (3.59 to 2.86 E+06) ng/L
- 5.Perfluorononanoic acid(PFNA) : (3.59 to 2.86 E+06) ng/L
- 6.Perfluorodecanoic acid(PFDA) : (3.57 to 2.86 E+06) ng/L
- 7.1H,1H, 2H, 2H-Perfluorohexane sulfonic acid(4:2FTS) : (14.4 to 1.15 E+07) ng/L
- 8.Perfluorobutanesulfonic acid(PFBS) : (3.61 to 2.89 E+06) ng/L
- 9.Perfluoropentanesulfonic acid(PFPeS) : (3.57 to 2.86 E+06) ng/L
- 10.1H,1H, 2H, 2H-Perfluorooctane sulfonic acid(6:2FTS) : (14.2 to 1.14 E+07) ng/L
- 11.Perfluorohexanesulfonic acid(PFHxS) : (3.61 to 2.89 E+06) ng/L
- 12.Perfluoroheptanesulfonic acid(PFHpS) : (3.63 to 2.90 E+06) ng/L
- 13.1H,1H, 2H, 2H-Perfluorodecane sulfonic acid(8:2FTS) : (14.4 to 1.16 E+07) ng/L
- 14.Perfluorooctanesulfonic acid(PFOS) : (3.63 to 2.90 E+06) ng/L
- 15.Perfluorononanesulfonic acid(PFNS) : (70.9 to 1.42 E+07) ng/L
- 16.Hexafluoropropylene oxide dimer acid(HFPO-DA) : (3.57 to 2.86 E+06) ng/L
- 17.4,8-Dioxa-3H-perfluorononanoic acid(ADONA) : (3.60 to 2.87 E+06) ng/L
- 18.9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS) : (3.50 to 2.80 E+06) ng/L
- 19.3-Perfluoropropyl propanoic acid(3:3FTCA) : (142 to 2.84 E+07) ng/L
- 20.2H,2H,3H,3H-Perfluorooctanoic acid(5:3FTCA) : (35.9 to 2.86 E+07) ng/L
- 21.3-Perfluoroheptyl propanoic acid(7:3FTCA) : (36.1 to 2.89 E+07) ng/L

P6, total 7 pages

The Appendix forms an integral part of this Certificate, which shall be invalid when use without the Appendix



22.Perfluoro(2-ethoxyethane)sulfonic acid(PFEESA) : (71.4 to 1.43 E+07) ng/L

23.Perfluoro-3-methoxypropanoic acid(PFMPA) : (3.60 to 2.87 E+06) ng/L

24.Perfluoro-4-methoxybutanoic acid(PFMBA) : (3.53 to 2.83 E+06) ng/L

Approval Signatory:HSU, Hui-Ming; CHEN, Pei-Chen

■ 13. 04 Environmental Protection

Waste (including waste liquid, waste solvent and waste oil)

C042 Flash Point

NIEA R210.2

(40.0 to 360) °C

Approval Signatory:LIU, Tzu-Hua; LIU, Ying-Pei

(Null below)

