環保·食品·藥物·檢測·公證·專業技術服務
CSSM
正修科技大學超微量研究科技中心
CHENG SHIU UNIVERSITY
Super Micro Mass Research & Technology Center

F025

正修學校財團法人正修科技大學超微量研究科技中心
環境檢測實驗室
檢驗報告總表

檢驗室電話：07-7358800 Ext. 2642　傳真：07-7314090 連絡人：黃明豐 地址：高雄市鳥松區澄清路840號 網址：

委託單位：長益蛋品有限公司　　採樣日期：-----
計畫名稱：-----　　收樣日期：115.04.09
採樣單位：-----　　案件編號：IJ115T0025
採樣地點：-----　　報告編號：IJ115T0025
委託單位聯絡人：陳柏睿　　報告製作日期：115.04.20
委託單位電話：0900156558

驗項目		樣品編號(名稱)	油脂含量(%)	濃　度	單　位	檢驗方法
戴奧辛	★	IJ115T0025-001 鹹蛋黃	49.30	**0.143***	pg WHO-TEQ/g 脂肪	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)，以氣相層析儀/高解析質譜儀(GC/HRMS)分析
戴奧辛類多氯聯苯	★			**0.043**		
六項指標性非戴奧辛類多氯聯苯	★			**0.103**	ng/g 脂肪	

限值			
	戴奧辛	2.5 pg WHO-TEQ/ g 脂肪	衛授食字第 1091300271 號【食品含戴奧辛及多氯聯苯處理規範】
	戴奧辛與戴奧辛類多氯聯苯含量總和	5.0 pg WHO-TEQ/ g 脂肪	
	六項指標性非戴奧辛類多氯聯苯	40 ng/g 脂肪	

檢驗報告僅就委託檢驗者之委託事項提供檢驗結果，不對產品合法性做判斷

備　註：
1. 本報告書未經報告簽署人簽名及中心主任蓋章，視同無效。
2. 檢驗項目有標示"★"者，係指該檢驗項目經衛生福利部認證，且依據認證之檢驗方法執行檢驗。
3. 本報告書僅對所送樣品負責，不得複印並做宣傳廣告之用。
4. 報告值均採用上界濃度（upper-bound concentration），即未測到之待測物濃度，用最低偵測極限($MI_{n}DL$, minimum detection limit)代入。戴奧辛及及戴奧辛類多氯聯苯之含量，係以檢測濃度乘以世界衛生組織所訂毒性當量因子（WHO-TEFs, WHO Toxic Equivalency Factors），加總計算之，並以總毒性當量（Toxicity Equivalent，簡稱 TEQ）表示。
5. 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。
6. 報告值有標*者表示此報告值不在認證範圍內。
7. 本報告樣品認證範圍

		認證範圍下限(定量極限)	認證範圍上限
戴奧辛	pg WHO-TEQ/g 脂肪	0.570	228.1
戴奧辛類多氯聯苯		0.0261	209.0
六項指標性非戴奧辛類多氯聯苯	ng / g 脂肪	0.024	120

報告簽署人（報告發行日期）：黃明豐 115.4.20

中心主任（蓋章）

本報告書共 2 頁，本頁為第 1 頁，分離使用無效。

正修科技大學超微量研究科技中心 高雄市鳥松區833澄清路840號 TEL:(886-7)731-0606#3920 FAX:(886-7)733-2204
Super Micro Mass Research & Technology Center NO.840, CHENGCING RD., NIAOSONG DIST., KAOHSIUNG CITY 83347, TAIWAN (R.O.C.)

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樣品照片紀錄(散裝)

正修科技大學超微量研究科技中心 高雄市烏松區833澄清路840號 TEL:(886-7)731-0606#3920 FAX:(886-7)733-2204
CHENG SHIU UNIVERSITY NO.840, CHENGCING RD., NIAOSONG DIST., KAOHSIUNG CITY 83347, TAIWAN (R.O.C.)
Super Micro Mass Research & Technology Center

正修學校財團法人正修科技大學超微量研究科技中心

Result and Recovery, Dioxin, Sample, Method：MOHWO0026.01

(Document No.：DQ-413D2-28：Edit：1：Approve Date：115.01.01)

IJ115T0025

	IJ115T0025-001-150416E	MinDL	WHO-TEF
	■pg/g fat □pg/g wet		
2,3,7,8-TeCDF	0.089602	0.030304	0.1
1,2,3,7,8-PeCDF	0.107092	0.042830	0.03
2,3,4,7,8-PeCDF	0.086985	0.042830	0.3
1,2,3,4,7,8-HxCDF	0.066176	0.022223	0.1
1,2,3,6,7,8-HxCDF	0.074441	0.021011	0.1
2,3,4,6,7,8-HxCDF	0.062750	0.021415	0.1
1,2,3,7,8,9-HxCDF	0.029370	0.023435	0.1
1,2,3,4,6,7,8-HpCDF	0.119564	0.019799	0.01
1,2,3,4,7,8,9-HpCDF	0.068177	0.024243	0.01
OCDF	0.140699	0.055356	0.0003
2,3,7,8-TeCDD	***0.023839***	0.023839	1
1,2,3,7,8-PeCDD	***0.045658***	0.045658	1
1,2,3,4,7,8-HxCDD	***0.029496***	0.029496	0.1
1,2,3,6,7,8-HxCDD	***0.026668***	0.026668	0.1
1,2,3,7,8,9-HxCDD	***0.027072***	0.027072	0.1
1,2,3,4,6,7,8-HpCDD	0.156679	0.027880	0.01
OCDD	0.843477	0.062225	0.0003
Total TEQ	**0.143103**	**0.104549**	
Labelled compounds	Recovery(%)	Acceptable Range(%)	
$^{13}C_{12}$-2,3,7,8-TeCDF	58.3	30~130	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	70.9	30~130	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	68.1	30~130	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	66.2	40~130	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	66.8	40~123	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	68.2	40~130	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	65.6	40~130	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	63.9	40~130	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	56.9	40~130	
$^{13}C_{12}$-2,3,7,8-TeCDD	70.7	30~130	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	67.5	30~130	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	72.9	40~130	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	72.3	40~130	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	66.4	40~130	
$^{13}C_{12}$-OCDD	59.8	40~130	
Cleanup standard			
$^{37}Cl_4$-2,3,7,8-TeCDD	62.8	35~130	

Any compounds that are reported below the MinDL will be counted as MinDL for the purpose of calculating the total concentration in the sample.

Bold Italic mean result below MinDL

Result and Recovery, Dioxin, BK/QC, Method：MOHWO0026.01

(Document No.：DQ-413D2-29；Edit：1；Approve Date：115.01.01)

IJ115T0025

	1150413BK-2-150416E	MinDL	1150413ST-2-150416E	MinDL	WHO-TEF	Recovery	Acceptable Range
	pg	pg	pg	pg		%	%
2,3,7,8-TeCDF	***0.014800***	0.01480	1.099763	0.093	0.1	110.0	70 ~ 130
1,2,3,7,8-PeCDF	***0.016400***	0.01640	4.838923	0.100	0.03	96.8	70 ~ 130
2,3,4,7,8-PeCDF	***0.016600***	0.01660	5.002165	0.094	0.3	100.0	70 ~ 130
1,2,3,4,7,8-HxCDF	***0.007800***	0.00780	4.937195	0.071	0.1	98.7	70 ~ 130
1,2,3,6,7,8-HxCDF	***0.007600***	0.00760	4.999730	0.073	0.1	100.0	70 ~ 130
2,3,4,6,7,8-HxCDF	***0.007800***	0.00780	5.172030	0.069	0.1	103.4	70 ~ 130
1,2,3,7,8,9-HxCDF	***0.008800***	0.00880	5.213290	0.076	0.1	104.3	70 ~ 130
1,2,3,4,6,7,8-HpCDF	0.023427	0.01220	5.269981	0.073	0.01	105.4	70 ~ 130
1,2,3,4,7,8,9-HpCDF	***0.013600***	0.01360	5.614600	0.078	0.01	112.3	70 ~ 130
OCDF	0.036727	0.02200	9.971178	0.125	0.0003	99.7	70 ~ 130
2,3,7,8-TeCDD	***0.012400***	0.01240	1.010674	0.065	1	101.1	70 ~ 130
1,2,3,7,8-PeCDD	***0.022800***	0.02280	5.089079	0.092	1	101.8	70 ~ 130
1,2,3,4,7,8-HxCDD	***0.012000***	0.01200	4.961136	0.080	0.1	99.2	70 ~ 130
1,2,3,6,7,8-HxCDD	***0.011600***	0.01160	4.769663	0.076	0.1	95.4	70 ~ 130
1,2,3,7,8,9-HxCDD	***0.011200***	0.01120	4.969318	0.075	0.1	99.4	70 ~ 130
1,2,3,4,6,7,8-HpCDD	***0.011400***	0.01140	4.946596	0.073	0.01	98.9	70 ~ 130
OCDD	0.050087	0.01140	10.458480	0.141	0.0003	104.6	70 ~ 130
Total TEQ	**0.049342**	-	**11.522223**	-		-	-
Labelled compounds	Recovery(%)	Acceptable Range(%)	Recovery(%)	Acceptable Range(%)			
$^{13}C_{12}$-2,3,7,8-TeCDF	88.3	30~130	69.6	30~130			
$^{13}C_{12}$-1,2,3,7,8-PeCDF	108.7	30~130	91.8	30~130			
$^{13}C_{12}$-2,3,4,7,8-PeCDF	102.9	30~130	91.0	30~130			
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	88.2	40~130	74.4	40~130			
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	88.5	40~123	76.3	40~123			
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	92.9	40~130	79.3	40~130			
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	91.2	40~130	77.8	40~130			
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	92.2	40~130	81.8	40~130			
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	88.7	40~130	80.4	40~130			
$^{13}C_{12}$-2,3,7,8-TeCDD	96.3	30~130	77.7	30~130			
$^{13}C_{12}$-1,2,3,7,8-PeCDD	94.9	30~130	86.4	30~130			
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	89.6	40~130	79.2	40~130			
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	89.8	40~130	80.4	40~130			
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	105.0	40~130	88.6	40~130			
$^{13}C_{12}$-OCDD	103.6	40~130	90.3	40~130			
Cleanup standard							
$^{37}Cl_4$-2,3,7,8-TeCDD	87.1	35~130	69.3	35~130			

Any compounds that are reported below the MinDL will be counted as MinDL for the purpose of calculating the total concentration in the sample.

Bold Italic mean result below MinDL

正修學校財團法人正修科技大學超微量研究科技中心

Result and Recovery, DL-PCBs, Sample, Method：MOHWO0026.01

(Document No.：DQ-413D2-016；Edit：1；Approve Date：115.01.01)

IJ115T0025

	PCB-IJ115T0025-001-150416D	MinDL	WHO-TEF
	■pg/g fat □pg/g wet		
PCB#77(4CL)	1.38642	0.14708	0.0001
PCB#81(4CL)	***0.13051***	0.13051	0.0003
PCB#105(5CL)	5.79990	0.21738	0.00003
PCB#114(5CL)	0.50876	0.27678	0.00003
PCB#118(5CL)	16.47246	0.20526	0.00003
PCB#123(5CL)	0.56005	0.21577	0.00003
PCB#126(5CL)	0.35977	0.21940	0.1
PCB#156(6CL)	2.87568	0.04323	0.00003
PCB#157(6CL)	0.76751	0.04243	0.00003
PCB#167(6CL)	1.56300	0.05132	0.00003
PCB#169(6CL)	0.19706	0.04162	0.03
PCB#189(7CL)	0.45882	0.02344	0.00003
Total TEQ	**0.04294**	**0.02327**	
Internal Std.	Recovery %	Acceptable Range %	
L-PCB#77(4CL)	69.30	25~150	
L-PCB#81(4CL)	71.30	25~150	
L-PCB#105(5CL)	67.40	25~150	
L-PCB#114(5CL)	50.00	25~150	
L-PCB#118(5CL)	66.90	25~150	
L-PCB#123(5CL)	63.40	25~150	
L-PCB#126(5CL)	74.40	25~150	
L-PCB#156(6CL)	66.90	30~140	
L-PCB#157(6CL)	67.60	30~140	
L-PCB#167(6CL)	65.90	30~140	
L-PCB#169(6CL)	67.20	30~140	
L-PCB#189(7CL)	71.40	30~140	

Any compounds that are reported below the MinDL will be counted as MinDL for the purpose of calculating the total concentration in the sample.

Bold Italic mean result below MinDL

Result and Recovery, DL-PCBs, BK/QC, Method：MOHWO0026.01

(Document No.：DQ-413D2-017-; Edit：1；Approve Date：115.01.01)

LJ115T0025

	PCB-1150413BK-2-150416D	MinDL	PCB-1150413ST-2-150416D	MinDL	WHO-TEF	Recovery	Acceptable Range
	pg	pg	pg	pg		%	%
PCB#77(4CL)	0.114852	0.040	105.120581	0.528	0.0001	105.1	60~135
PCB#81(4CL)	***0.037200***	0.037	99.740408	0.460	0.0003	99.7	60~135
PCB#105(5CL)	0.172968	0.056	99.651230	0.618	0.00003	99.7	60~135
PCB#114(5CL)	***0.069200***	0.069	99.067552	0.799	0.00003	99.1	60~135
PCB#118(5CL)	0.168428	0.054	111.233938	0.603	0.00003	111.2	60~135
PCB#123(5CL)	***0.056000***	0.056	98.151207	0.606	0.00003	98.2	60~135
PCB#126(5CL)	***0.059000***	0.059	98.344998	0.648	0.1	98.3	60~135
PCB#156(6CL)	***0.018600***	0.019	100.038397	0.165	0.00003	100.0	60~135
PCB#157(6CL)	***0.018400***	0.018	100.926937	0.169	0.00003	100.9	60~135
PCB#167(6CL)	***0.022800***	0.023	106.178344	0.177	0.00003	106.2	60~135
PCB#169(6CL)	***0.021800***	0.022	101.733748	0.173	0.03	101.7	60~135
PCB#189(7CL)	***0.018800***	0.019	90.556198	0.065	0.00003	90.6	60~135
Total	**0.006593**		**12.951121**			-	-
Internal Std.	Recovery %	Acceptable Range	Recovery %	Acceptable Range			
L-PCB#77(4CL)	81.2	25~150	79.9	25~150			
L-PCB#81(4CL)	83.9	25~150	83.5	25~150			
L-PCB#105(5CL)	83.3	25~150	81.0	25~150			
L-PCB#114(5CL)	64.8	25~150	61.5	25~150			
L-PCB#118(5CL)	81.7	25~150	78.6	25~150			
L-PCB#123(5CL)	78.0	25~150	76.0	25~150			
L-PCB#126(5CL)	87.9	25~150	84.1	25~150			
L-PCB#156(6CL)	81.2	30~140	78.1	30~140			
L-PCB#157(6CL)	79.5	30~140	74.3	30~140			
L-PCB#167(6CL)	78.7	30~140	76.3	30~140			
L-PCB#169(6CL)	75.0	30~140	71.2	30~140			
L-PCB#189(7CL)	82.8	30~140	81.8	30~140			

Any compounds that are reported below the MinDL will be counted as MinDL for the purpose of calculating the total concentration in the sample.

Bold Italic mean result below MinDL

正修學校財團法人正修科技大學超微量研究科技中心

Result and Recovery, ICES-6, Sample, Method：MOHWO0026.01

(Document No.：DQ-413D2-022；Edit：1；Approve Date：115.01.01)

IJ115T0025

	ICES-IJ115T0025-001-150416D	MinDL
	■ng/g fat □ng/g wet	
PCB#28(3CL)	0.011609	0.000434
PCB#52(4CL)	0.007410	0.000324
PCB#101(5CL)	0.003830	0.000355
PCB#138(6CL)	0.024967	0.000336
PCB#153(6CL)	0.038712	0.000293
PCB#180(7CL)	0.016062	0.000362
Total	**0.102591**	**0.002104**
Internal Std.	Recovery %	Acceptable Range %
I-PCB#28(3CL)	33.50	10~145
I-PCB#52(4CL)	83.70	10~145
I-PCB#101(5CL)	90.90	10~145
I-PCB#138(6CL)	77.20	10~145
I-PCB#153(6CL)	75.10	10~145
I-PCB#180(7CL)	85.30	10~145
Cleanup Std.		
C-PCB#60(4CL)	25.80	10~145
C-PCB#159(6CL)	34.20	10~145

Any compounds that are reported below the MinDL will be counted as MinDL for the purpose of calculating the total concentration in Bold Italic mean result below MinDL

Result and Recovery, ICES-6, BK/QC, Method：MOHWO0026.01

(Document No.：DQ-413D2-023；Edit：1；Approve Date：115.01.01)

IJ115T0025

	ICES-1150413BK-2-150416D	MinDL	ICES-1150413ST-2-150416D	MinDL	Recovery %	Acceptable Range %
	ng/g	ng/g	ng	ng		
PCB#28(3CL)	0.000996	0.000242	0.864694	0.001081	86.5	60~135
PCB#52(4CL)	0.000800	0.000117	0.907478	0.000449	90.7	60~135
PCB#101(5CL)	***0.000140***	0.000140	0.874245	0.001067	87.4	60~135
PCB#138(6CL)	***0.000086***	0.000086	0.874924	0.001027	87.5	60~135
PCB#153(6CL)	***0.000076***	0.000076	0.879424	0.000823	87.9	60~135
PCB#180(7CL)	0.000150	0.000076	0.881182	0.000782	88.1	60~135
Total	**0.002247**		**5.281947**			
Internal Std.	Recovery %	Acceptable Range %	Recovery %	Acceptable Range %		
I-PCB#28(3CL)	29.90	10~150	41.30	10~150		
I-PCB#52(4CL)	86.60	10~150	104.30	10~150		
I-PCB#101(5CL)	100.10	10~150	117.10	10~150		
I-PCB#138(6CL)	92.90	10~150	96.90	10~150		
I-PCB#153(6CL)	89.60	10~150	96.30	10~150		
I-PCB#180(7CL)	98.70	10~150	107.00	10~150		
Cleanup Std.						
C-PCB#60(4CL)	21.40	10~150	27.90	10~150		
C-PCB#159(6CL)	33.90	10~150	40.10	10~150		

Any compounds that are reported below the MinDL will be counted as MinDL for the purpose of calculating the total concentration in the sample.

Bold Italic mean result below MinDL