

測試報告 Test Report

號碼(No.) : CE/2015/51437

日期(Date) : 2015/05/18

頁數(Page) : 1 of 5

春大地化學股份有限公司

SPRING GREEN CORPORATION

新北市三重區中正北路361號3樓之1

3F. -1, NO. 361, JHONGJHENG N. RD., SANCHONG DISTRICT, NEW TAIPEI CITY 241, 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) :

送樣廠商(Sample Submitted By) : 春大地化學股份有限公司 (SPRING GREEN CORPORATION)
樣品名稱(Sample Description) : CARBON BLACK
樣品型號(Style/Item No.) : AS-10, AS-11, AS-101, AS-102, AS-103, AS-105, AS-102T, AS-103T, AS-105T, AS-11A, AS-11M, AS-12M, AS-107, AS-108, AS-117A, AS-118, AS-168, AS-168K, AS-168TK, AS-1005, AS-1255, AS-1923, AS-1300A, AS-1500, AS-1500A, AS-1600, AS-1800, AS-1900, AS-1980, AS-1990, AS-21, AS-25TK, AS-201, AS-213, AS-222T, AS-2000, AS-2131, AS-2080, AS-2088, AS-2688, AS-2923, AS-3M, AS-319, AS-32, AS-32JT, AS-38, AS-301, AS-360, AS-390d, AS-62JT, AS-45, AS-412, AS-430, AS-52, AS-52T, AS-53, AS-53B, AS-523, AS-500, AS-500L, AS-62, AS-66, AS-68, AS-600, AS-6923, AS-78-1, AS-700, AS-702G, AS-703G, AS-706A, AS-722T, AS-760, AS-775i, AS-780, AS-768K, AS-8, AS-8NT, AS-82, AS-8N, AS-800, AS-810, AS-820, AS-823, AS-832, AS-9A, AS-9AT, AS-99A, AS-9F, AS-900, AS-910A, AS-910A, AS-915d, AS-958K, AS-990, AS-9923, AS-AK2, AS-BK2, AS-CK2, AS-F900A, AS-SHT88, AS-W12, AS-W26, AS-TK25, AS-PK23, AS-EC503, AS-EC503B, AS-EC30SJ, AS-EB, AS-SB, AS-F1, AS-F16, AS-F128, AS-F35, AS-F4, N-220, N-326, N-330, N-339, N-550, N-660, N-774, AS-HT01, AS-NEC01, AS-PP802

收件日期(Sample Receiving Date) : 2015/05/11

測試期間(Testing Period) : 2015/05/11 TO 2015/05/18

=====
測試需求(Test Requested) : 依據客戶要求, 檢測多環芳香烴含量. (As specified by client, to test Polynuclear Aromatic Hydrocarbons (PAHs).)

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).

總結(Summary) : 根據客戶所提供的樣品, 其多環芳香烴測試結果符合德國產品安全委員會(AfPS) GS PAHs 第3類「列於德國產品安全法之其他產品」之限值要求 (Based upon the performed tests on the submitted sample, the test results of PAHs comply with the limits of PAHs requirement (Category 3)「Other products under ProdSG」as set by German Committee on Product Safety (AfPS) GS PAHs.)



Edison Chang / Sr. Supervisor
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

測試報告 Test Report

號碼(No.) : CE/2015/51437

日期(Date) : 2015/05/18

頁數(Page) : 2 of 5

春大地化學股份有限公司

SPRING GREEN CORPORATION

新北市三重區中正北路361號3樓之1

3F. -1, NO. 361, JHONGJHENG N. RD., SANCHONG DISTRICT, NEW TAIPEI CITY 241, TAIWAN (R. O. C.)



測試結果(Test Results)

測試部位(PART NAME) No.1 : 灰色粉末 (GRAY POWDER)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result) No.1
多環芳香烴 / Polynuclear Aromatic Hydrocarbons (PAHs)				
芴 / Acenaphthene (CAS No.: 83-32-9)	mg/kg	參考AfPS GS 2014:01 PAK方法, 以氣相層析/質譜儀檢測. / With reference to AfPS GS 2014:01 PAK method. Analysis was performed by GC/MS.	0.2	n.d.
芴烯 / Acenaphthylene (CAS No.: 208-96-8)			0.2	n.d.
蒽 / Anthracene (CAS No.: 120-12-7)			0.2	n.d.
苯駢蒽 / Benzo[a]anthracene (CAS No.: 56-55-3)			0.2	n.d.
苯駢(a)芘 / Benzo[a]pyrene (CAS No.: 50-32-8)			0.2	n.d.
苯(b)苯駢芴 / Benzo[b]fluoranthene (CAS No.: 205-99-2)			0.2	n.d.
苯駢芘 / Benzo[g,h,i]perylene (CAS No.: 191-24-2)			0.2	n.d.
苯(k)苯駢芴 / Benzo[k]fluoranthene (CAS No.: 207-08-9)			0.2	n.d.
Chrysene (CAS No.: 218-01-9)			0.2	n.d.
二苯駢蒽 / Dibenzo[a,h]anthracene (CAS No.: 53-70-3)			0.2	n.d.
苯駢芴 / Fluoranthene (CAS No.: 206-44-0)			0.2	n.d.
芴 / Fluorene (CAS No.: 86-73-7)			0.2	n.d.
茛萘 / Indeno[1,2,3-c,d] pyrene (CAS No.: 193-39-5)			0.2	n.d.
萘 / Naphthalene (CAS No.: 91-20-3)			0.2	1
菲 / Phenanthrene (CAS No.: 85-01-8)			0.2	1.07
芘 / Pyrene (CAS No.: 129-00-0)			0.2	n.d.
苯(j)苯駢芴 / Benzo[j]fluoranthene (CAS No.: 205-82-3)			0.2	n.d.
苯駢(e)芘 / Benzo[e]pyrene (CAS No.: 192-97-2)			0.2	n.d.
多環芳香烴18項總和 / Sum of 18 PAHs			-	2.07

備註(Note) :

1. mg/kg = milligram per kilogram
2. n.d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法偵測極限值)
4. "-" = Not Regulated (無規格值)

測試報告 Test Report

號碼(No.) : CE/2015/51437

日期(Date) : 2015/05/18

頁數(Page) : 3 of 5

春大地化學股份有限公司
SPRING GREEN CORPORATION

新北市三重區中正北路361號3樓之1

3F. -1, NO. 361, JHONGJHENG N. RD., SANCHONG DISTRICT, NEW TAIPEI CITY 241, TAIWAN (R. O. C.)



德國產品安全委員會(AfPS) GS PAHs 要求 /

AfPS (German commission for Product Safety): GS PAHs requirements

項目 (Parameter)	第1類 (Category 1)	第2類 (Category 2)		第3類 (Category 3)	
	意圖放入嘴內的材料或玩具會與皮膚有所接觸(超過30秒). (Material indented to be put in the mouth or toys with intended skin contact (longer than 30 s).)	不屬於第1類的材料並可預見與皮膚接觸逾30秒(長期或經常與皮膚接觸). (Materials not falling under category 1 with foreseeable contact to skin for longer than 30 seconds (long-term skin or frequent contact).)	列於2009/48/EC之玩具 (Toy under 2009/48/EC)	列於德國產品安全法之其他產品 (Other products under ProdSG)	列於2009/48/EC之玩具 (Toy under 2009/48/EC)
Naphthalene	< 1	< 2		< 10	
Acenaphthylene	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Acenaphthene					
Fluorene					
Phenanthrene					
Anthracene					
Fluoranthene					
Pyrene					
Benzo[a]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[b]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[j]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[k]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[a]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[e]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno[1,2,3-c,d] pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo[a,h]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[g,h,i]perylene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
18項PAH總濃度 (Sum of 18 PAH)	< 1	< 5	< 10	< 20	< 50

單位(Unit) : mg/kg

測試報告 Test Report

號碼(No.) : CE/2015/51437

日期(Date) : 2015/05/18

頁數(Page) : 4 of 5

春大地化學股份有限公司

SPRING GREEN CORPORATION

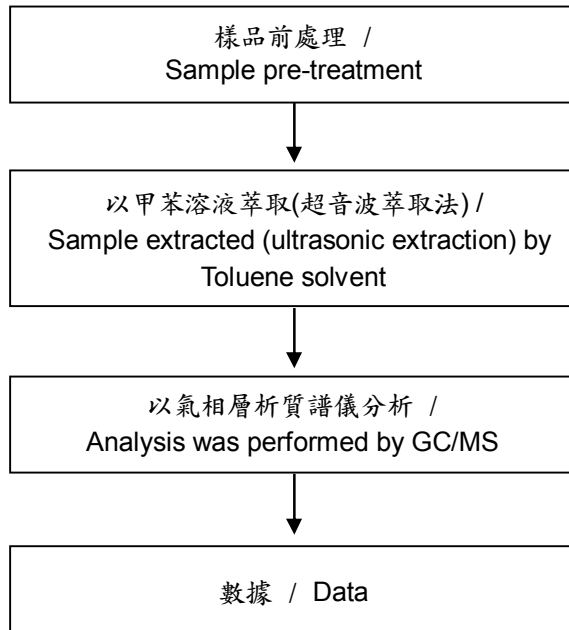
新北市三重區中正北路361號3樓之1

3F. -1, NO. 361, JHONGJHENG N. RD., SANCHONG DISTRICT, NEW TAIPEI CITY 241, TAIWAN (R. O. C.)



多環芳香烴分析流程圖 / PAHs (Polynuclear Aromatic Hydrocarbons) analytical flow chart

- 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



測試報告 Test Report

號碼(No.) : CE/2015/51437

日期(Date) : 2015/05/18

頁數(Page) : 5 of 5

春大地化學股份有限公司
SPRING GREEN CORPORATION

新北市三重區中正北路361號3樓之1

3F. -1, NO. 361, JHONGJHENG N. RD., SANCHONG DISTRICT, NEW TAIPEI CITY 241, 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.)

CE/2015/51437



** 報告結尾(End of Report) **

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/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Termse-Document.aspx>. 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.