



報告編號：MZ2-231000004



總結試驗報告

試驗項目

Total anthocyanins (as cyanidin 3-O-glucoside chloride) 確效試驗

試驗物質：我的視角金盞花葉黃素

委託單位：我的輕食有限公司

高雄市仁武區京吉六路 29 號

試驗單位：台美檢驗科技股份有限公司

新北市新莊區新北產業園區五工五路 21 號

備註：

- 本報告共 87 頁，分離使用及 / 或摘要複製無效。
- 本試驗未涉及試驗物質抽樣，總結試驗報告僅對該送驗之試驗物質負責。



蔡岳廷

報告簽署人：蔡岳廷 博士



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評估「我的視角金盞花葉黃素」 指標成分 Total anthocyanins (as C3G)之分析確效報告

摘 要

本試驗係參考「行政院衛生署 89.06 現行藥品優良製造規範-分析確效作業指導手冊」與「衛生福利部 111.11.16 檢驗機構實驗室品質系統基本規範 附件一：檢驗機構化學領域檢驗結果之品質管制」所進行，將我的輕食有限公司提供之試驗物質「我的視角金盞花葉黃素」(台美檢體編號 MZ2-231000004) 之指標成分 Total anthocyanins (as C3G)，進行分析方法評估，並分別對試驗物質、山桑子萃取物及黑豆萃取物進行 Total anthocyanins (as C3G)含量分析。由確效結果得知，檢體及對照用標準品皆能定性 peak 1 – 8, 10 – 15 and 17，基質對 Total anthocyanins (as C3G)的定量並無顯著干擾，顯示本方法分析 Total anthocyanins (as C3G)具有良好的專一性。準確度試驗均符合 32.4% ~ 39.6%範圍；重複性所得結果能符合規格範圍 ($CV \leq 10\%$)。顯示本方法能夠達到分析「我的視角金盞花葉黃素」指標成分 Total anthocyanins (as C3G)之目的。利用本方法進行試驗物質、山桑子萃取物及黑豆萃取物之含量分析，其 Total anthocyanins (as C3G)含量為 7.51%、35.45%及 6.80%。



1 試驗時程：

- 1.1 試驗物質接收日：2023 / 10 / 02
- 1.2 研究起始日：2023 / 10 / 02
- 1.3 實驗起始日：2023 / 10 / 03
- 1.4 實驗完成日：2024 / 01 / 26
- 1.5 研究完成日：2024 / 02 / 21

2 試驗目的：

本試驗係參考「行政院衛生署 89.06 現行藥品優良製造規範-分析確效作業指導手冊」與「衛生福利部 111.11.16 檢驗機構實驗室品質系統基本規範 附件一：檢驗機構化學領域檢驗結果之品質管制」規範執行試驗，利用分析專一性、檢量線線性與範圍、準確度、精密度與定量極限等試驗，證實檢驗方法之適用性及分析結果之正確性。

3 試驗物質：

- 3.1 物質名稱：「我的視角金盞花葉黃素」係由我的輕食有限公司（地址：高雄市仁武區京吉六路 29 號）提供。
- 3.2 檢體編號：台美檢體編號 MZ2-231000004。
- 3.3 物質形態：白色罐內裝紫色膠囊，無特殊氣味，外觀如附件 1。
- 3.4 包裝規格：60 顆/罐。

4 試驗方法：

4.1 試藥及試劑配製方式：

- 4.1.1 Bilberry dry extract HRS：購自 European Directorate for the Quality of Medicines & HealthCare，純度 3.47%。
- 4.1.2 乙腈 (Acetonitrile, ACN)：購自 Honeywell，純度 99.9%。
- 4.1.3 磷酸 (Phosphoric acid)：購自 J.T.Baker，純度 85.7%。
- 4.1.4 甲酸 (Formic acid)：購自 Honeywell，純度 99.1%。
- 4.1.5 甲醇 (Methanol)：購自 J.T.Baker，純度 100%。
- 4.1.6 鹽酸 (Hydrochloric Acid)：購自 J.T.Baker，純度 37.6%。
- 4.1.7 移動相 A：取 800 mL 去離子水於 1,000 mL 定容瓶內，加入 85 mL 甲酸後，以去離子水定容至 1,000 mL。
- 4.1.8 移動相 B：取 300 mL 去離子水於 1,000 mL 定容瓶內，加入 85 mL 甲酸、225 mL 乙腈及 225 mL 甲醇後，以去離子水定容至 1,000 mL。
- 4.1.9 Solvent Mixture：取 2 mL 鹽酸與 98 mL 甲醇混和均勻。
- 4.1.10 Dilute phosphoric acid：取 6.9 mL 85%磷酸，以去離子水定容至 1,000 mL。

4.2 標準品配製

- 4.2.1 對照用標準品溶液：稱取約 50 mg bilberry dry extract HRS，精確稱定，以稀釋溶液溶解並定容



至 10 mL。

4.2.2 加入 solvent mixture 溶解並定容至 10 mL，作為標準原液。

4.2.3 取 1 mL 標準原液，於 5 mL 定量瓶中。

4.2.4 加入 4 mL dilute phosphoric acid 稀釋並定容至 5 mL。

4.3 檢液配製：

4.3.1 取 20 顆去除膠囊殼並將內容物均勻混合得到檢體。

4.3.2 取約 50 mg 檢體，精確稱定，置於 10 mL 定容瓶中。

4.3.3 加入 solvent mixture 溶解並定容至 10 mL，作為萃取液。

4.3.4 取 1 mL 萃取液，於 5 mL 定量瓶中。

4.3.5 加入 4 mL dilute phosphoric acid 稀釋並定容至 5 mL 供作檢液。

4.4 儀器條件：

4.4.1 儀器：高效能液相層析儀 (High-Performance Liquid Chromatography, HPLC)/光二極體陣列偵測器 (Photodiode Array Detector, PDA)。

4.4.2 層析管柱：GL Sciences Inc., Inertsil® ODS-2, 5 μm, 4.6 × 250 mm。

4.4.3 移動相流速：1 mL/min。

4.4.4 樣品注射體積：10 μL。

4.4.5 層析管柱溫度：35°C。

4.4.6 定量波長：535 nm

4.4.7 移動相層析條件：

時間 (min)	A (%)	B (%)
0	93	7
35	75	25
45	35	65
46	0	100
50	0	100
51	93	7
60	93	7

4.5 Total anthocyanins (as C3G) 之含量計算：

4.5.1 檢測 Delphinidin 3-O-galactoside chloride (peak 1)、Myrtilin (delphinidin 3-O-glucoside chloride) (peak 2)、Cyanidin 3-O-galactoside chloride (peak 3)、Delphinidin 3-O-arabinoside chloride (peak 4)、Chrysanthemine (Cyanidin 3-O-glucoside chloride) (peak 5)、Petunidin 3-O-galactoside chloride (peak 6)、Cyanidin 3-O-arabinoside chloride (peak 7)、Petunidin 3-O-glucoside chloride (peak 8)、Peonidin 3-O-galactoside chloride (peak 10)、Petunidin 3-O-arabinoside chloride (peak 11)、Peonidin 3-O-glucoside chloride (peak 12)。



Malvidin 3-O-galactoside chloride (peak 13)、Peonidin 3-O-arabinoside chloride (peak 14)、Malvidin 3-O-glucoside chloride (peak 15)、Malvidin 3-O-arabinoside chloride (peak 17)訊號面積帶入 4.5.2 中回推檢液中 Total anthocyanins (as C3G)濃度。

4.5.2 計算公式

Total anthocyanins (as C3G)含量 (%) = $(A_1 \times m_2 \times p) / (m_1 \times A_2)$

A_1 ：測試樣品中，花色素苷的面積加總 (peak 1 – 8, 10 – 15 and 17)

A_2 ：對照用標準品中，cyanidin 3-O-glucoside chloride (peak 5)的面積

m_1 ：測試樣品的取樣量 (g)

m_2 ：對照用標準品 (bilberry dry extract HRS)的取樣量 (g)

p ：對照用標準品 (bilberry dry extract HRS)中 cyanidin 3-O-glucoside chloride 的含量 (3.47%)

4.6 Total anthocyanins (as C3G)分析方法確效：

4.6.1 對照用標準品：依循歐洲藥典中之對照用標準品 bilberry dry extract HRS，其 COA 中 Cyanidin 3-O-glucoside chloride 標示含量為 3.47%。

4.6.2 專一性：將檢體及對照用標準品經步驟 3.3 樣品處理後，進行 HPLC/PDA 分析，定性花色素苷之 15 個化合物(peak 1 – 8, 10 – 15 and 17)，確認無顯著干擾。

4.6.3 準確度：取對照用標準品 bilberry dry extract HRS，經步驟 3.3 樣品處理後，分裝為五瓶接續上機，計算其 Total anthocyanins (as C3G)濃度，皆應符合藥典要求 32.4% ~ 39.6%。

4.6.4 精密度-重複性：計算 3.6.4 準確度之檢體濃度之變異係數 (CV)，合格標準為 $CV \leq 10\%$ 。

5 試驗結果：

5.1 Total anthocyanins (as C3G)分析確效結果：

5.1.1 專一性：結果如圖 1 及圖 2 所示。檢體及對照用標準品皆能定性 peak 1 – 8, 10 – 15 and 17，顯示無顯著之干擾。

5.1.2 準確度：結果如表 1 顯示，對照用標準品五重複測試結果為 33.09%、33.06%、33.26%、33.09% 及 33.26%，皆介於 32.4% ~ 39.6%之間，合乎規格範圍。

5.1.3 精密度 - 重複性：結果如表 1 顯示，對照用標準品五重複測試，其變異係數 (CV) 為 0.30%，低於 10%，合乎規格範圍。

5.2 試驗物質中指標成分 Total anthocyanins (as C3G)分析結果：

由表 5 結果顯示，試驗物質「我的視角金盞花葉黃素」之含量分析，其 Total anthocyanins (as C3G)含量為 7.51%。顧客另提供之山桑子萃取物 Total anthocyanins (as C3G)含量為 35.45%、黑豆萃取物 Total anthocyanins (as C3G)含量為 6.80% (原始數據詳見附件 7)。

6 結論：

由確效結果得知，本分析方法不受到基質干擾，顯示本方法於分析 Total anthocyanins (as C3G)具有良好的專一性；準確度試驗均符合 32.4% ~ 39.6%範圍；重複性所得結果能符合規格範圍 ($CV \leq 10\%$)。顯示本方法能夠達到分析「我的視角金盞花葉黃素」指標成分 Total anthocyanins (as C3G)之目的。利用本方法進行試驗物質、山桑子萃取物及黑豆萃取物之含量分析，其 Total anthocyanins (as C3G)含量為 7.51%、35.45%及 6.80%。



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7 參考文獻：

- 7.1 行政院衛生署 89.06 現行藥品優良製造規範-分析確效作業指導手冊。
- 7.2 衛生福利部 111.11.16 檢驗機構實驗室品質系統基本規範 附件一：檢驗機構化學領域檢驗結果之品質管制。
- 7.3 ICH Steering Committee(2005) ICH Harmonised Tripartite Guideline, Validation of Analytical Procedures : Text and Methodology, Q2(R1).
- 7.4 European Pharmacopeia 10.0 04/2019:2394 fresh bilberry fruit dry extract, refined and standardized.
- 7.5 台美自訂方法。



表 1：指標成分 Total anthocyanins (as C3G)之準確度及精密度評估數據

Reference Standard -Bilberry Dry Extract HRS	STD-1	STD-2	STD-3	STD-4	STD-5
Sample Weight (g)	0.05027	0.05027	0.05027	0.05027	0.05027
Sum of the areas of the peaks due to the anthocyanins (peak 1-8, 10-15 & 17) in the chromatogram obtain with the test solution	8729.98	8721.83	8773.67	8730.15	8773.86
Area of the peak due to cyanidin 3-O-glucoside chloride (peak 5) in the chromatogram obtained with bilberry dry extract HRS	940.30	916.87	913.64	910.30	931.23
Content of Total anthocyanins (as cyanidin 3-O-glucoside chloride) (%)	33.09	33.06	33.26	33.09	33.26
Average Content (%)	33.15 ± 0.10				
CV (%)	0.30				

CV (%) = SD / Average Content x 100% = 0.10 / 33.15 x 100% = 0.30%



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表 2：試驗物質之 Total anthocyanins (as C3G)含量

單位：%

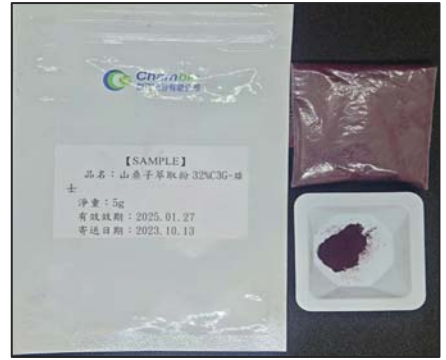
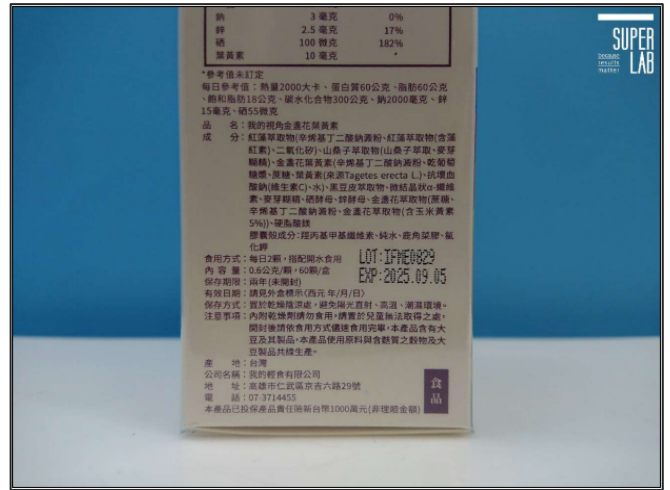
指標成分	「我的視角金盞花葉黃素」	山桑子萃取物	黑豆萃取物
Sample Weight (g)	0.05027	0.05037	0.05010
Sum of the areas of the peaks due to the anthocyanins (peak 1-8, 10-15 & 17) in the chromatogram obtain with the test solution	1981.20	9370.69	1788.39
Area of the peak due to cyanidin 3-O-glucoside chloride (peak 5) in the chromatogram obtained with bilberry dry extract HRS	309.98	955.94	1382.93
Content of Total anthocyanins (as cyanidin 3-O-glucoside chloride) (%)	7.51	35.45	6.80



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附件 1：試驗物質外觀

「我的視角金盞花葉黃素」(檢體編號：MZ2-231000004)





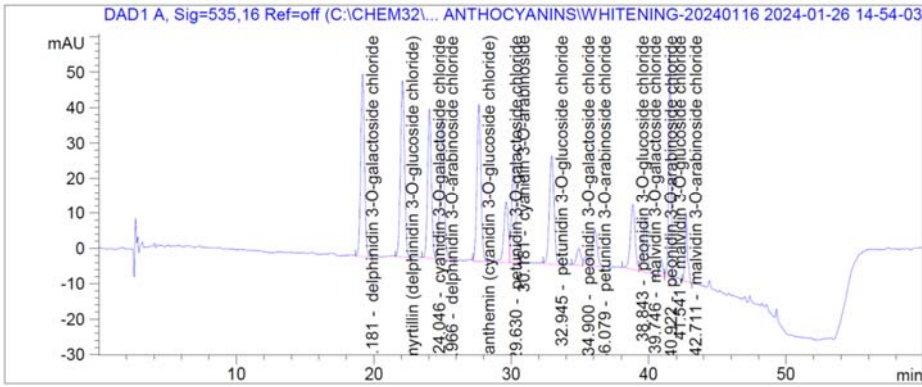
報告編號 : MZ2-231000004

附件 2 : 對照用標準品 (Total anthocyanins (as C3G)) 之 HPLC/PDA 圖譜

***** HPLC Report *****

Acq. Operator : Paul
 Report Name : Bilberry Dry Extract HRS
 Report Type : PDF
 Report Creation : 1/31/2024 1:27:05 PM
 Raw Data File Name : C:\CHEM32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-20240116 2024-01-26 14-54-03\086-1301.D

Instrument : HPLC-DAD (Agilent 1200 Series)
 Column : GL Sciences Inc. Inertsil ODS-2, 5 um, 4.6 x 250 mm
 Injection Time : 1/27/2024 3:17:08 AM
 Vial Location : Vial 86
 Injection Volume : 10 uL
 Analysis Method : C:\CHEM32\1\METHODS\TOTAL ANTHOCYANINS-EP-Q.M
 Acquisition method : C:\Chem32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-20240116 2024-01-26 14-54-03\TOTAL ANTHOCYANINS-EP->



DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
delphinidin 3-O	19.181	VV	994.72	11.513

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
myrtillin (delp)	22.086	BB	1043.37	12.076

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
cyanidin 3-O-ga	24.046	BV	810.45	9.380

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
delphinidin 3-O	24.966	VV	857.11	9.920

DAD1 A, Sig=535,16 Ref=off



附件 2 : 對照用標準品 (Total anthocyanins (as C3G)) 之 HPLC/PDA 圖譜 (續)

***** HPLC Report *****

Acq. Operator : Paul
Report Name : Bilberry Dry Extract HRS
Report Type : PDF
Report Creation : 1/31/2024 1:27:05 PM
Raw Data File Name : C:\CHEM32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-
20240116 2024-01-26 14-54-03\086-1301.D

Compound Name	Meas. R	Peak	Area	Area %
chrysanthem (27.646	VB	915.44	10.596

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
petunidin 3-O-g	29.630	BV	389.47	4.508

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
cyanidin 3-O-ar	30.181	VV	626.25	7.248

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
petunidin 3-O-g	32.945	VB	745.09	8.624

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
peonidin 3-O-ga	34.900	BV	107.82	1.248

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
petunidin 3-O-a	36.079	VV	260.38	3.014

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
peonidin 3-O-gl	38.843	BV	434.68	5.031

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
malvidin 3-O-ga	39.746	VB	337.59	3.907

DAD1 A, Sig=535,16 Ref=off

附件 2 : 對照用標準品 (Total anthocyanins (as C3G)) 之 HPLC/PDA 圖譜 (續)

***** HPLC Report *****

Acq. Operator : Paul
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Report Type : PDF
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Raw Data File Name : C:\CHEM32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-20240116 2024-01-26 14-54-03\086-1301.D

Compound Name	Meas. R	Peak	Area	Area %
peonidin 3-O-ar	40.922	VV	62.05	0.718

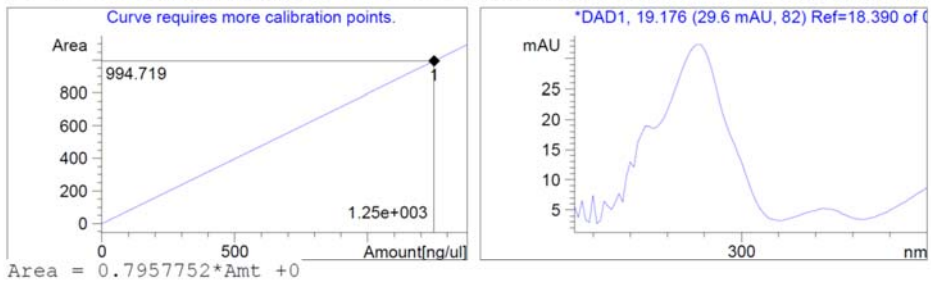
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Compound Name	Meas. R	Peak	Area	Area %
malvidin 3-O-gl	41.541	VB	808.48	9.358

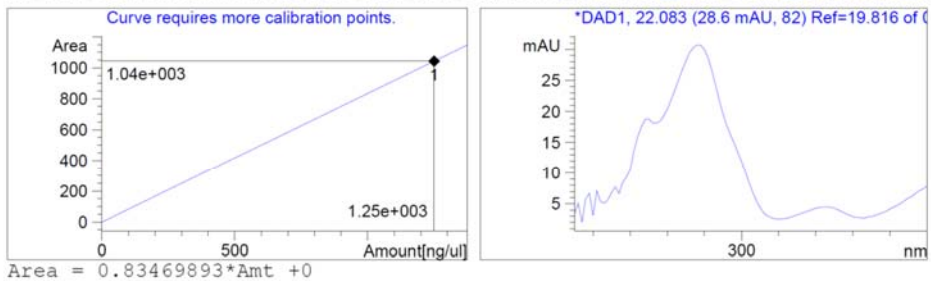
DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
malvidin 3-O-ar	42.711	VV	246.93	2.858

S/N Ratio : 545.721



S/N Ratio : 526.823



S/N Ratio : 445.674

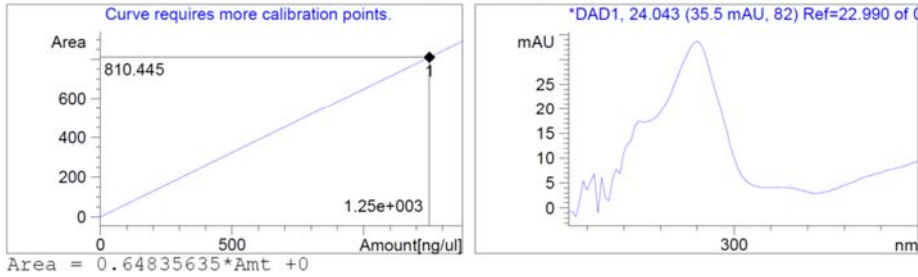


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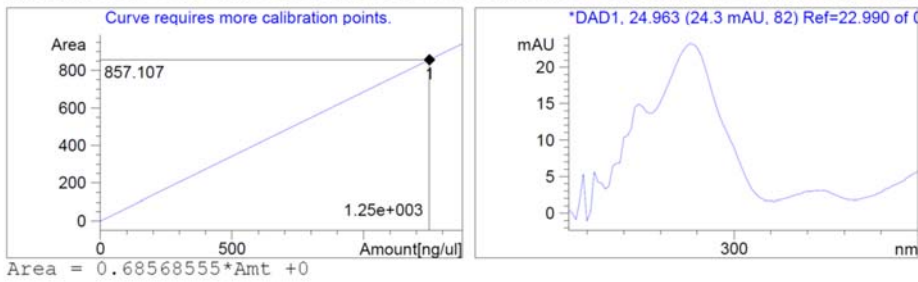
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***** HPLC Report *****

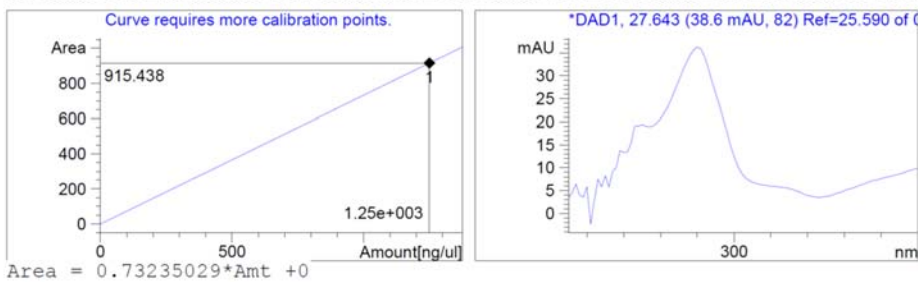
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 Report Type : PDF
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S/N Ratio : 417.155



S/N Ratio : 469.006



S/N Ratio : 179.472

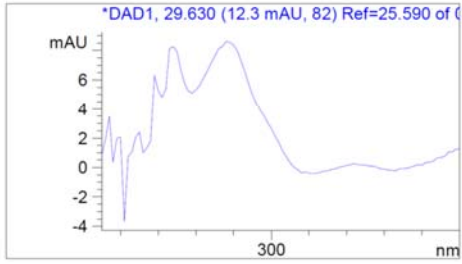
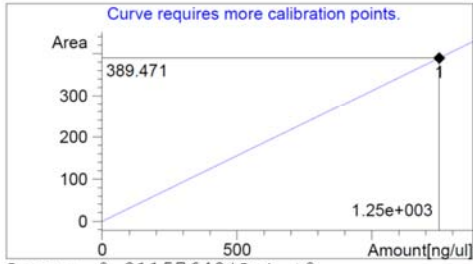


報告編號 : MZ2-231000004

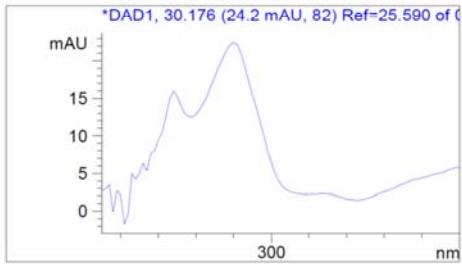
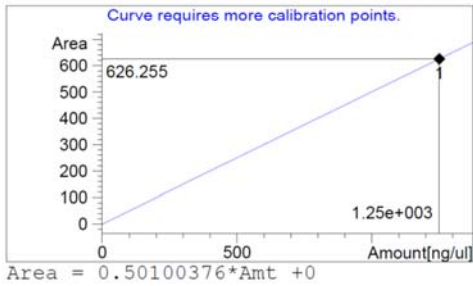
附件 2 : 對照用標準品 (Total anthocyanins (as C3G)) 之 HPLC/PDA 圖譜 (續)

***** HPLC Report *****

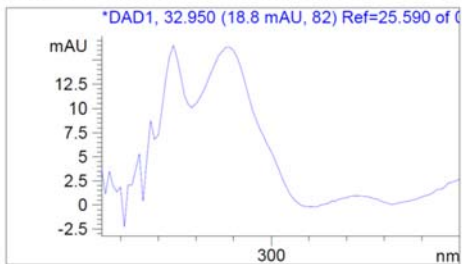
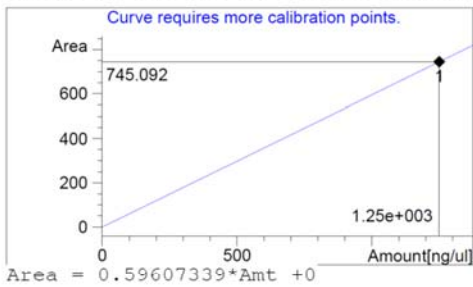
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Report Type : PDF
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S/N Ratio : 318.035



S/N Ratio : 325.437



S/N Ratio : 49.687

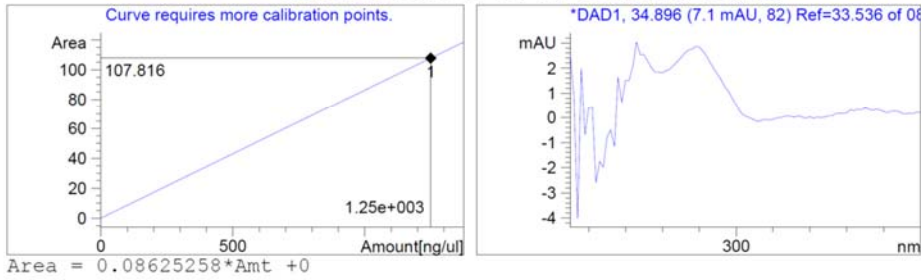


報告編號 : MZ2-231000004

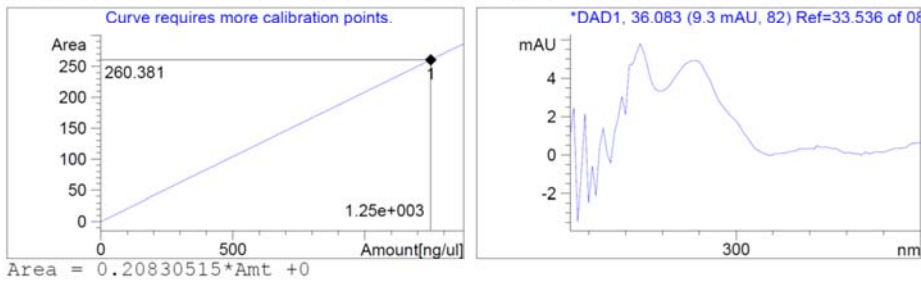
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***** HPLC Report *****

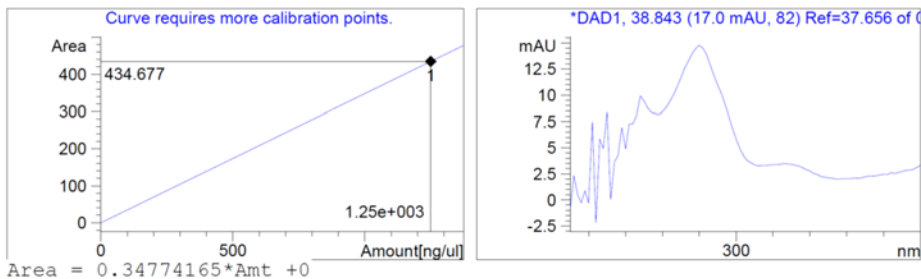
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S/N Ratio : 108.224



S/N Ratio : 193.229



S/N Ratio : 159.020

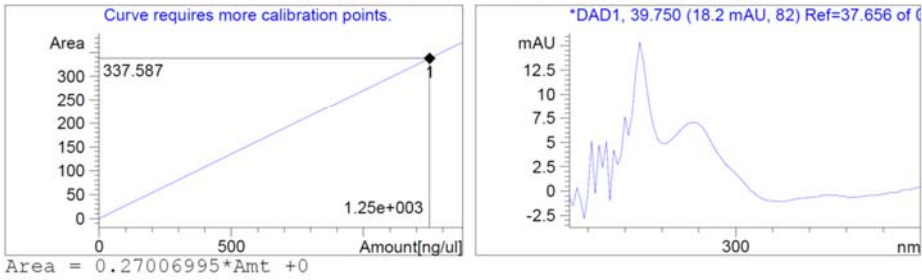


報告編號 : MZ2-231000004

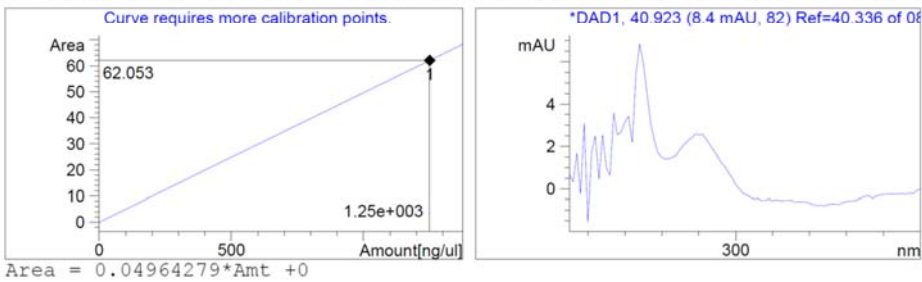
附件 2 : 對照用標準品 (Total anthocyanins (as C3G)) 之 HPLC/PDA 圖譜 (續)

***** HPLC Report *****

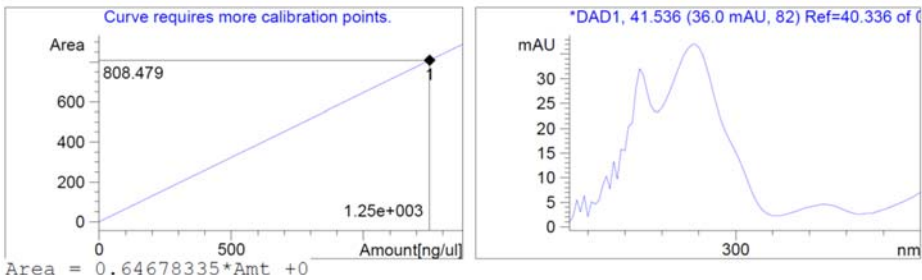
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 Report Type : PDF
 Report Creation : 1/31/2024 1:27:05 PM
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S/N Ratio : 48.166



S/N Ratio : 684.997



S/N Ratio : 205.173

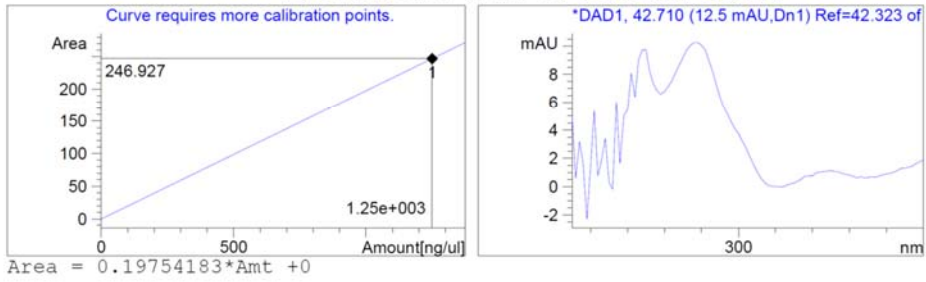


報告編號 : MZ2-231000004

附件 2 : 對照用標準品 (Total anthocyanins (as C3G)) 之 HPLC/PDA 圖譜 (續)

***** HPLC Report *****

Acq. Operator : Paul
 Report Name : Bilberry Dry Extract HRS
 Report Type : PDF
 Report Creation : 1/31/2024 1:27:05 PM
 Raw Data File Name : C:\CHEM32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-
 20240116 2024-01-26 14-54-03\086-1301.D





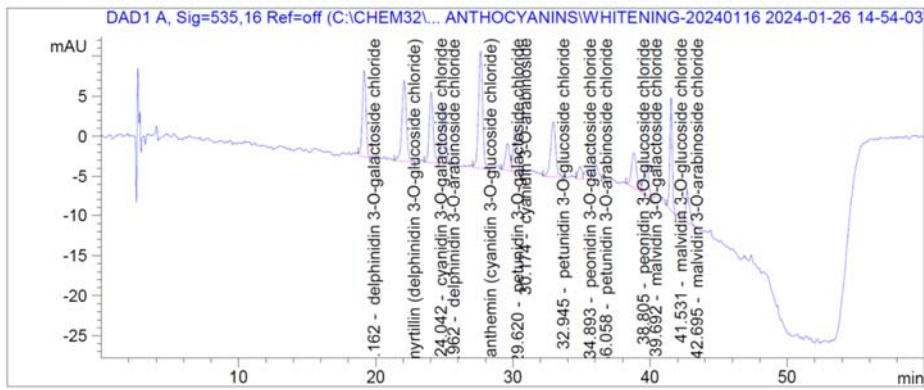
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附件 3：試驗物質(我的視角金盞花葉黃素)之 HPLC/PDA 圖譜

***** HPLC Report *****

Acq. Operator : Paul
 Report Name : Nutritionist
 Report Type : PDF
 Report Creation : 1/31/2024 1:25:30 PM
 Raw Data File Name : C:\CHEM32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-20240116 2024-01-26 14-54-03\085-1201.D

Instrument : HPLC-DAD (Agilent 1200 Series)
 Column : GL Sciences Inc. Inertsil ODS-2, 5 um, 4.6 x 250 mm
 Injection Time : 1/27/2024 2:15:16 AM
 Vial Location : Vial 85
 Injection Volume : 10 uL
 Analysis Method : C:\CHEM32\1\METHODS\TOTAL ANTHOCYANINS-EP-Q.M
 Acquisition method : C:\Chem32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-20240116 2024-01-26 14-54-03\TOTAL ANTHOCYANINS-EP->



DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
delphinidin 3-O	19.162	VB	198.62	10.025

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
myrtillin (delp	22.077	BB	233.76	11.799

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
cyanidin 3-O-ga	24.042	VV	176.33	8.900

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
delphinidin 3-O	24.962	VB	147.27	7.433

DAD1 A, Sig=535,16 Ref=off



附件 3 : 試驗物質(我的視角金盞花葉黃素)之 HPLC/PDA 圖譜 (續)

```

***** HPLC Report *****
-----
Acq. Operator      : Paul
Report Name       : Nutritionist
Report Type       : PDF
Report Creation   : 1/31/2024 1:25:30 PM
Raw Data File Name : C:\CHEM32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-
                   20240116 2024-01-26 14-54-03\085-1201.D
-----
Compound Name    Meas. R  Peak   Area   Area %
-----
chrysanthemini ( 27.641  VB    309.98  15.646
-----
DAD1 A, Sig=535,16 Ref=off
-----
Compound Name    Meas. R  Peak   Area   Area %
-----
petunidin 3-O-g 29.620  BV    74.64   3.767
-----
DAD1 A, Sig=535,16 Ref=off
-----
Compound Name    Meas. R  Peak   Area   Area %
-----
cyanidin 3-O-ar 30.174  VB    115.97   5.853
-----
DAD1 A, Sig=535,16 Ref=off
-----
Compound Name    Meas. R  Peak   Area   Area %
-----
petunidin 3-O-g 32.945  BV    178.80   9.025
-----
DAD1 A, Sig=535,16 Ref=off
-----
Compound Name    Meas. R  Peak   Area   Area %
-----
peonidin 3-O-ga 34.893  MF    31.79    1.605
-----
DAD1 A, Sig=535,16 Ref=off
-----
Compound Name    Meas. R  Peak   Area   Area %
-----
petunidin 3-O-a 36.058  MF    47.93    2.419
-----
DAD1 A, Sig=535,16 Ref=off
-----
Compound Name    Meas. R  Peak   Area   Area %
-----
peonidin 3-O-gl 38.805  BV    122.16   6.166
-----
DAD1 A, Sig=535,16 Ref=off
-----
Compound Name    Meas. R  Peak   Area   Area %
-----
malvidin 3-O-ga 39.692  VB    92.55    4.672
-----
DAD1 A, Sig=535,16 Ref=off

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報告編號 : MZ2-231000004

附件 3 : 試驗物質(我的視角金盞花葉黃素)之 HPLC/PDA 圖譜 (續)

***** HPLC Report *****

Acq. Operator : Paul
 Report Name : Nutritionist
 Report Type : PDF
 Report Creation : 1/31/2024 1:25:30 PM
 Raw Data File Name : C:\CHEM32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-20240116 2024-01-26 14-54-03\085-1201.D

Compound Name	Meas. R	Peak	Area	Area %
peonidin 3-O-ar	0.000		0.00	0.000

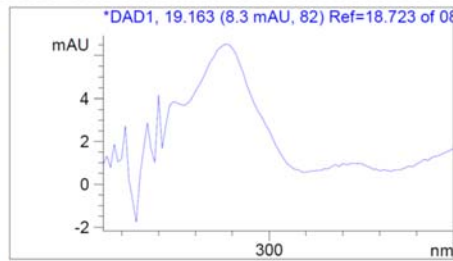
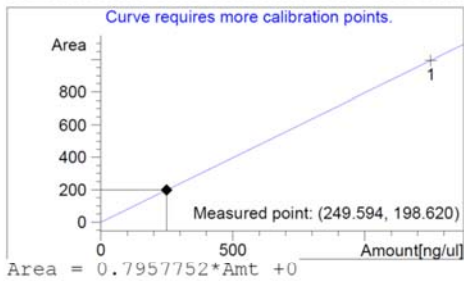
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Compound Name	Meas. R	Peak	Area	Area %
malvidin 3-O-gl	41.531	BB	180.51	9.111

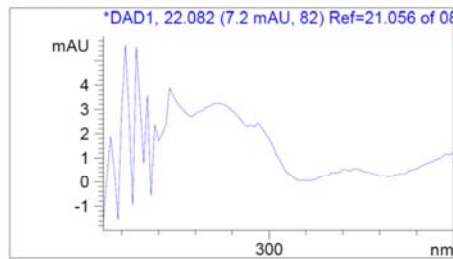
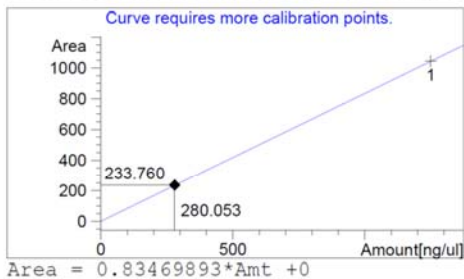
DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
malvidin 3-O-ar	42.695	VB	70.89	3.578

S/N Ratio : 100.030



S/N Ratio : 93.862



S/N Ratio : 81.881

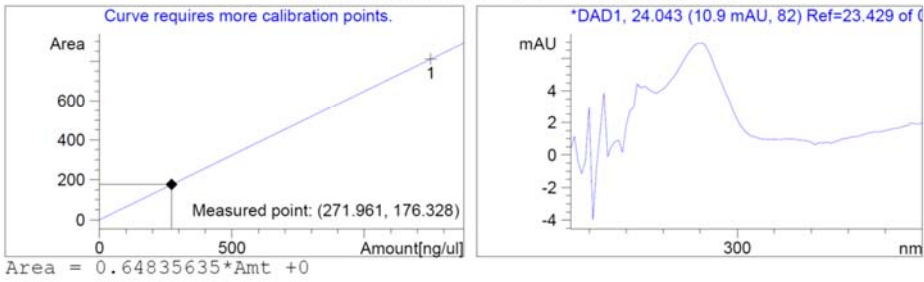


報告編號 : MZ2-231000004

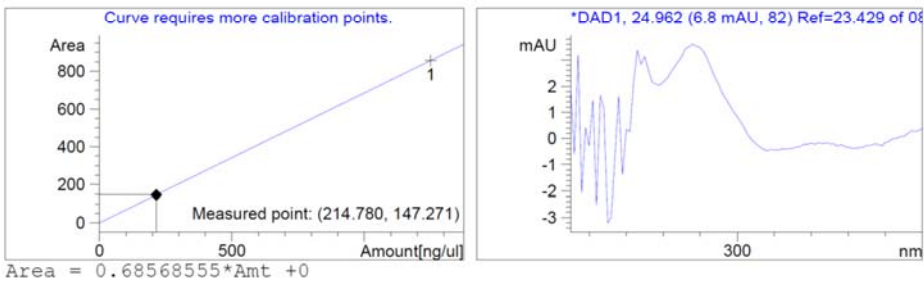
附件 3 : 試驗物質(我的視角金盞花葉黃素)之 HPLC/PDA 圖譜 (續)

***** HPLC Report *****

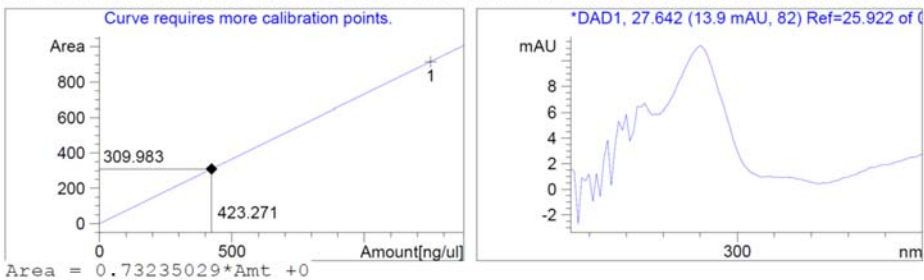
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 Report Name : Nutritionist
 Report Type : PDF
 Report Creation : 1/31/2024 1:25:30 PM
 Raw Data File Name : C:\CHEM32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-20240116 2024-01-26 14-54-03\085-1201.D



S/N Ratio : 66.404



S/N Ratio : 135.979



S/N Ratio : 31.648

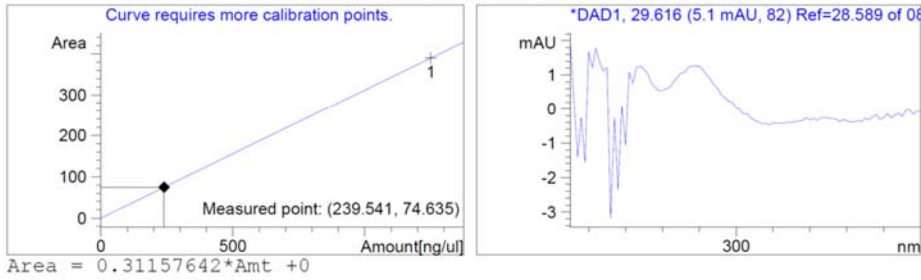


報告編號 : MZ2-231000004

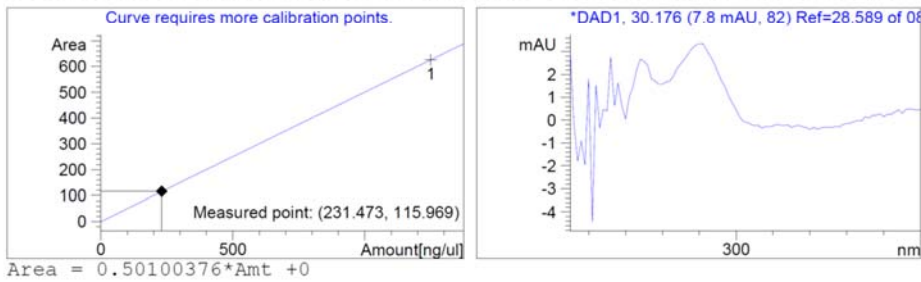
附件 3 : 試驗物質(我的視角金盞花葉黃素)之 HPLC/PDA 圖譜 (續)

***** HPLC Report *****

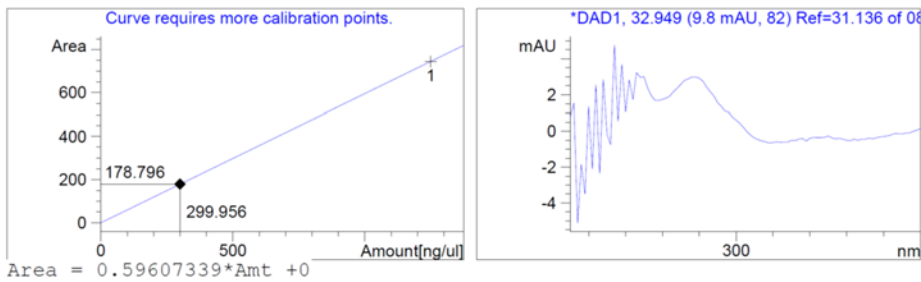
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S/N Ratio : 50.658



S/N Ratio : 64.084



S/N Ratio : 14.392

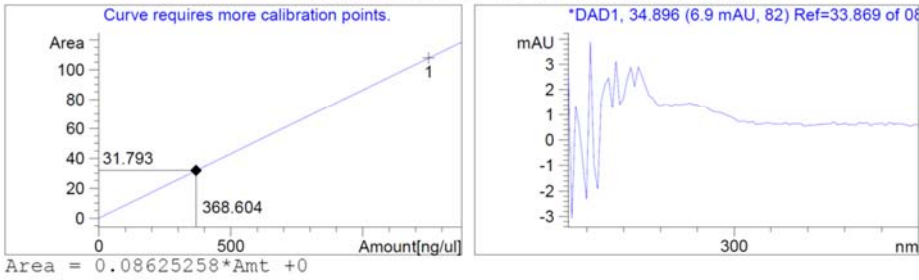


報告編號 : MZ2-231000004

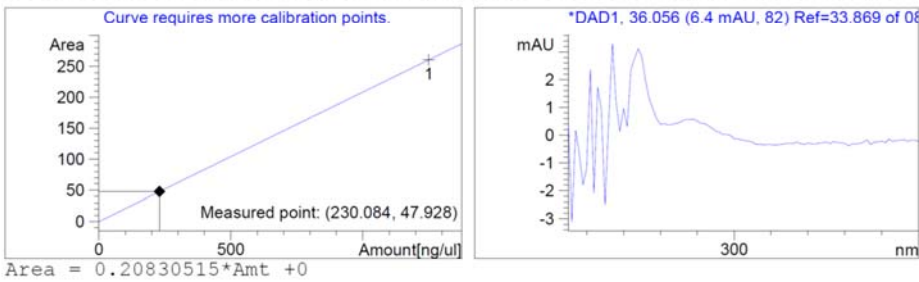
附件 3 : 試驗物質(我的視角金盞花葉黃素)之 HPLC/PDA 圖譜 (續)

***** HPLC Report *****

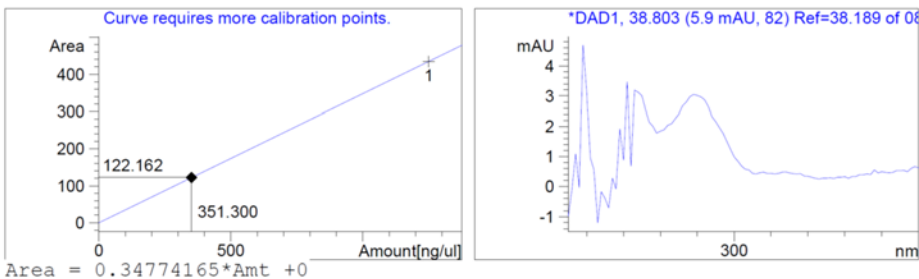
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 Report Type : PDF
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S/N Ratio : 17.396



S/N Ratio : 41.071



S/N Ratio : 35.382

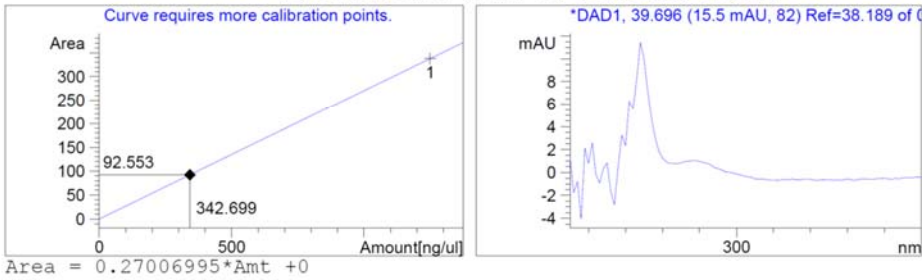


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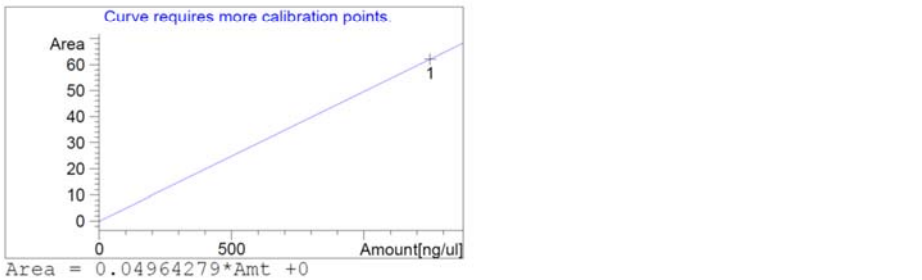
附件 3 : 試驗物質(我的視角金盞花葉黃素)之 HPLC/PDA 圖譜 (續)

***** HPLC Report *****

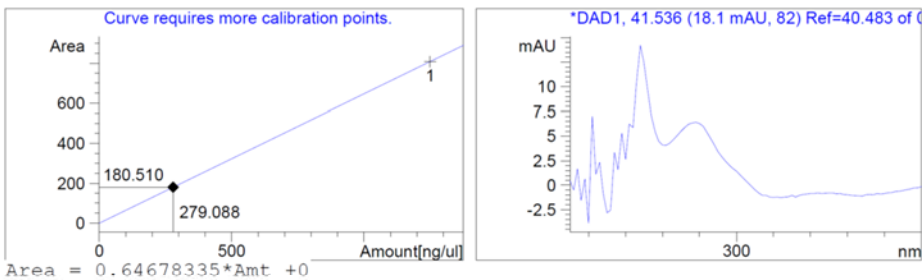
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S/N Ratio :



S/N Ratio : 132.903



S/N Ratio : 39.756

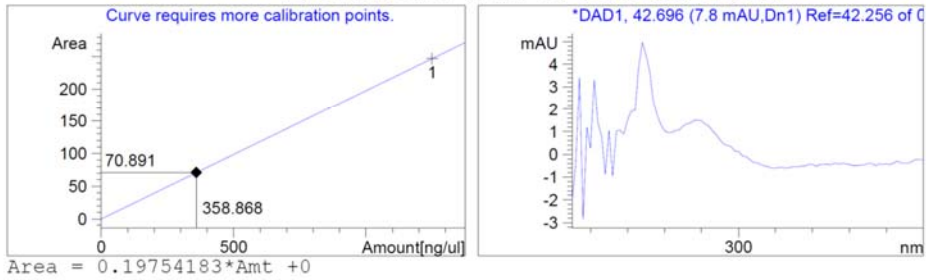


報告編號：MZ2-231000004

附件 3：試驗物質(我的視角金盞花葉黃素)之 HPLC/PDA 圖譜 (續)

***** HPLC Report *****

Acq. Operator : Paul
 Report Name : Nutritionist
 Report Type : PDF
 Report Creation : 1/31/2024 1:25:30 PM
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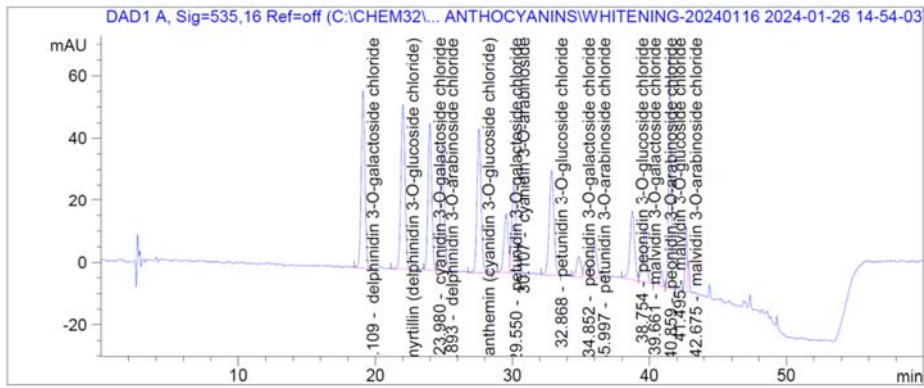
報告編號：MZ2-231000004

附件 4：山桑子萃取物之 HPLC/PDA 圖譜

***** HPLC Report *****

Acq. Operator : Paul
 Report Name : Bilberry (C)
 Report Type : PDF
 Report Creation : 1/31/2024 1:24:41 PM
 Raw Data File Name : C:\CHEM32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-20240116 2024-01-26 14-54-03\083-1001.D

Instrument : HPLC-DAD (Agilent 1200 Series)
 Column : GL Sciences Inc. Inertsil ODS-2, 5 um, 4.6 x 250 mm
 Injection Time : 1/27/2024 12:11:26 AM
 Vial Location : Vial 83
 Injection Volume : 10 uL
 Analysis Method : C:\CHEM32\1\METHODS\TOTAL ANTHOCYANINS-EP-Q.M
 Acquisition method : C:\Chem32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-20240116 2024-01-26 14-54-03\TOTAL ANTHOCYANINS-EP->



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Compound Name	Meas. R	Peak	Area	Area %
delphinidin 3-O	19.109	VB	1090.05	11.633

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
myrtillin (delp	22.020	VV	1103.56	11.777

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
cyanidin 3-O-ga	23.980	VV	896.29	9.565

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
delphinidin 3-O	24.893	VB	864.03	9.221

DAD1 A, Sig=535,16 Ref=off



報告編號 : MZ2-231000004

附件 4 : 山桑子萃取物之 HPLC/PDA 圖譜 (續)

```

***** HPLC Report *****
-----
Acq. Operator      : Paul
Report Name       : Bilberry (C)
Report Type       : PDF
Report Creation   : 1/31/2024 1:24:41 PM
Raw Data File Name : C:\CHEM32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-
                   20240116 2024-01-26 14-54-03\083-1001.D
-----
Compound Name    Meas. R  Peak    Area    Area %
-----
chrysanthemini ( 27.571  BB     955.94   10.201
-----
DAD1 A, Sig=535,16 Ref=off
-----
Compound Name    Meas. R  Peak    Area    Area %
-----
petunidin 3-O-g 29.550  BV     404.39    4.315
-----
DAD1 A, Sig=535,16 Ref=off
-----
Compound Name    Meas. R  Peak    Area    Area %
-----
cyanidin 3-O-ar 30.107  VB     633.64    6.762
-----
DAD1 A, Sig=535,16 Ref=off
-----
Compound Name    Meas. R  Peak    Area    Area %
-----
petunidin 3-O-g 32.868  VV     824.83    8.802
-----
DAD1 A, Sig=535,16 Ref=off
-----
Compound Name    Meas. R  Peak    Area    Area %
-----
peonidin 3-O-ga 34.852  MF     148.98    1.590
-----
DAD1 A, Sig=535,16 Ref=off
-----
Compound Name    Meas. R  Peak    Area    Area %
-----
petunidin 3-O-a 35.997  MF     266.52    2.844
-----
DAD1 A, Sig=535,16 Ref=off
-----
Compound Name    Meas. R  Peak    Area    Area %
-----
peonidin 3-O-gl 38.754  VV     529.17    5.647
-----
DAD1 A, Sig=535,16 Ref=off
-----
Compound Name    Meas. R  Peak    Area    Area %
-----
malvidin 3-O-ga 39.661  VB     398.94    4.257
-----
DAD1 A, Sig=535,16 Ref=off

```




報告編號 : MZ2-231000004

附件 4 : 山桑子萃取物之 HPLC/PDA 圖譜 (續)

***** HPLC Report *****

Acq. Operator : Paul
 Report Name : Bilberry (C)
 Report Type : PDF
 Report Creation : 1/31/2024 1:24:41 PM
 Raw Data File Name : C:\CHEM32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-20240116 2024-01-26 14-54-03\083-1001.D

Compound Name	Meas. R	Peak	Area	Area %
peonidin 3-O-ar	40.859	VV	67.89	0.725

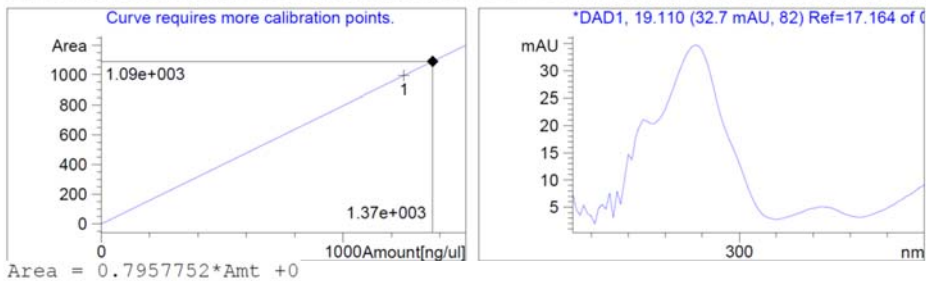
DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
malvidin 3-O-gl	41.495	VV	954.56	10.187

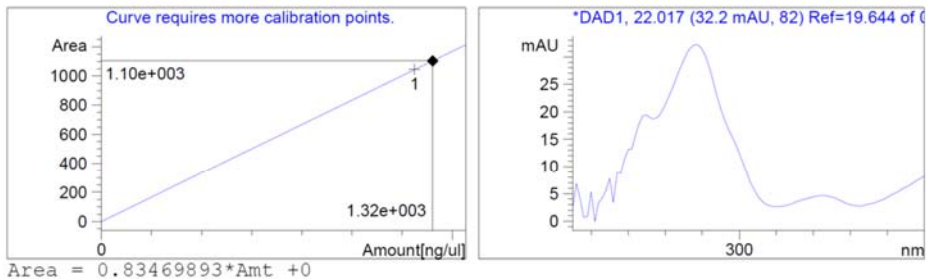
DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
malvidin 3-O-ar	42.675	BV	231.90	2.475

S/N Ratio : 1132.529



S/N Ratio : 1050.302



S/N Ratio : 938.646

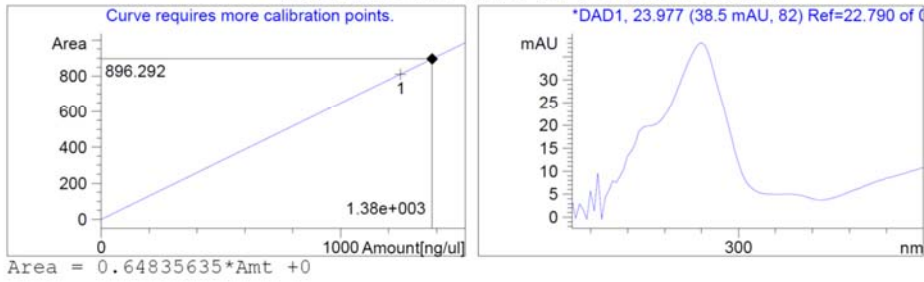


報告編號 : MZ2-231000004

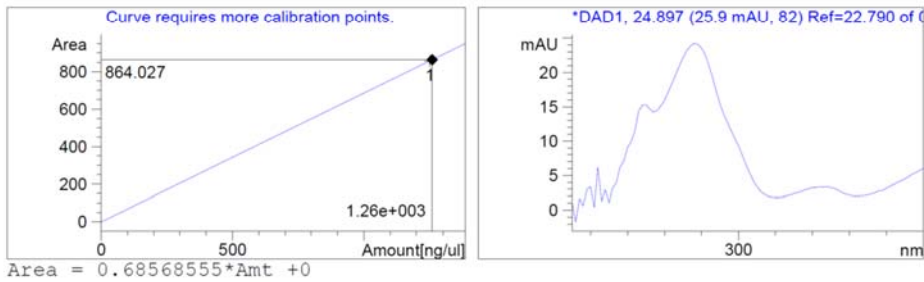
附件 4 : 山桑子萃取物之 HPLC/PDA 圖譜 (續)

***** HPLC Report *****

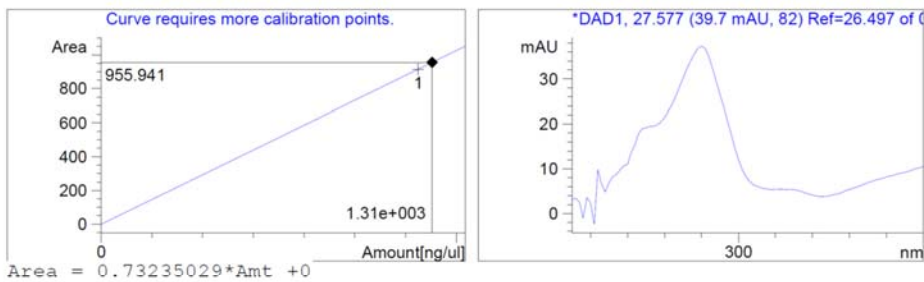
Acq. Operator : Paul
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 Report Type : PDF
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S/N Ratio : 810.603



S/N Ratio : 917.807



S/N Ratio : 372.030

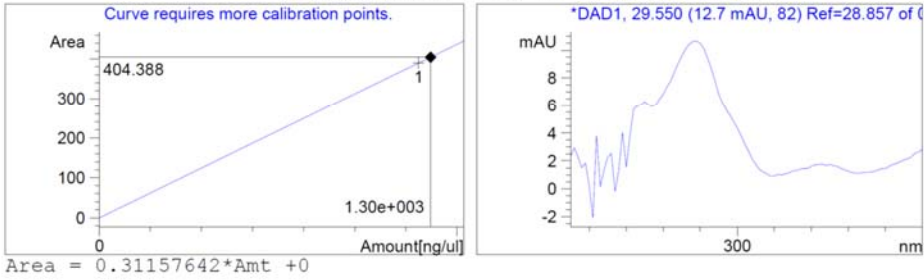


報告編號 : MZ2-231000004

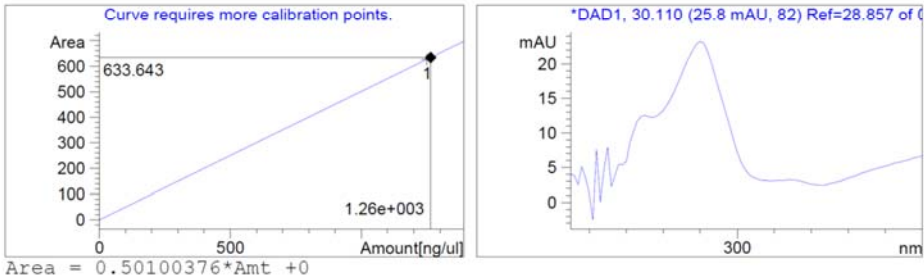
附件 4 : 山桑子萃取物之 HPLC/PDA 圖譜 (續)

***** HPLC Report *****

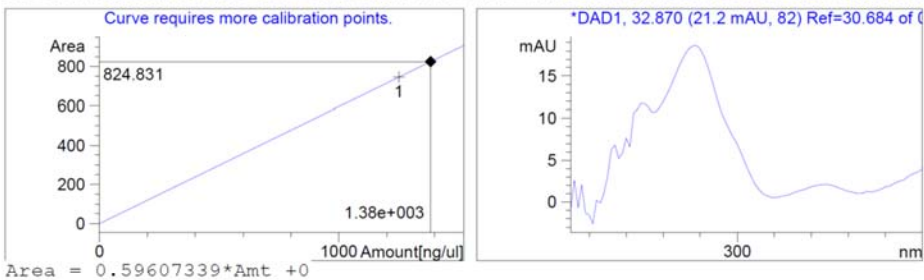
Acq. Operator : Paul
 Report Name : Bilberry (C)
 Report Type : PDF
 Report Creation : 1/31/2024 1:24:41 PM
 Raw Data File Name : C:\CHEM32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-20240116 2024-01-26 14-54-03\083-1001.D



S/N Ratio : 598.362



S/N Ratio : 669.640



S/N Ratio : 127.184

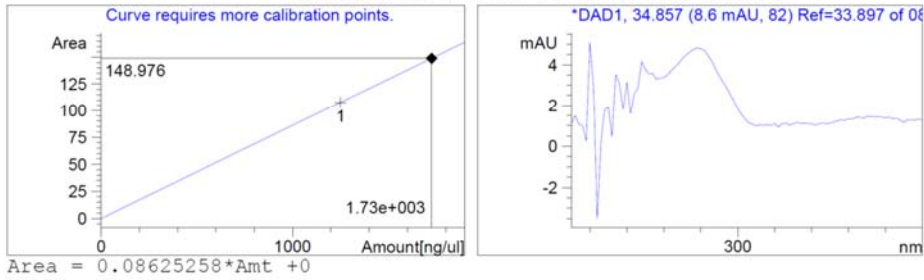


報告編號 : MZ2-231000004

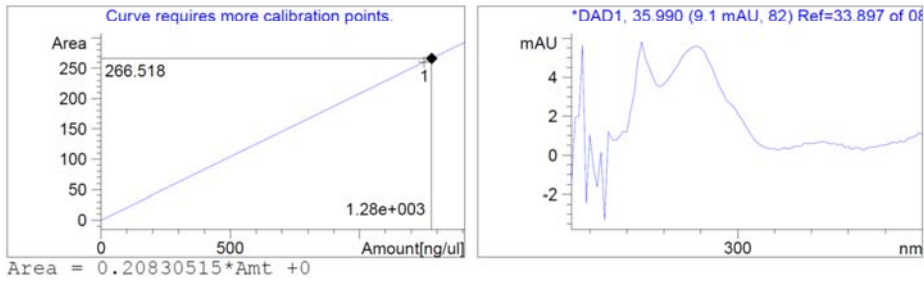
附件 4 : 山桑子萃取物之 HPLC/PDA 圖譜 (續)

***** HPLC Report *****

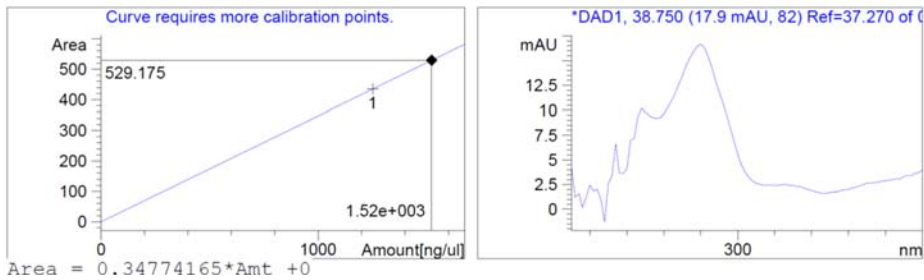
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 Report Type : PDF
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 Raw Data File Name : C:\CHEM32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-20240116 2024-01-26 14-54-03\083-1001.D



S/N Ratio : 215.630



S/N Ratio : 435.402



S/N Ratio : 347.486

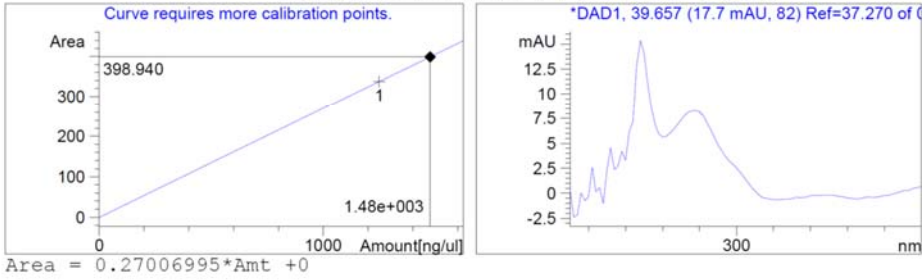


報告編號 : MZ2-231000004

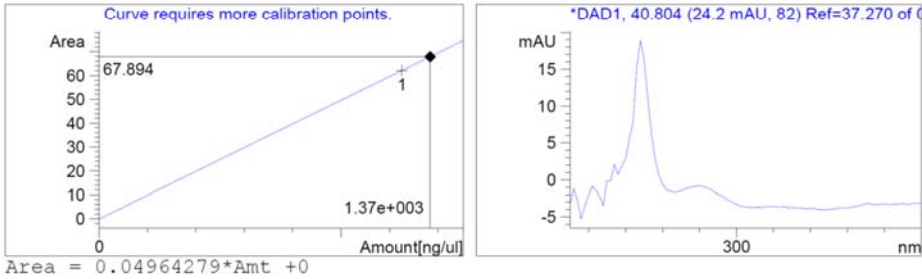
附件 4 : 山桑子萃取物之 HPLC/PDA 圖譜 (續)

***** HPLC Report *****

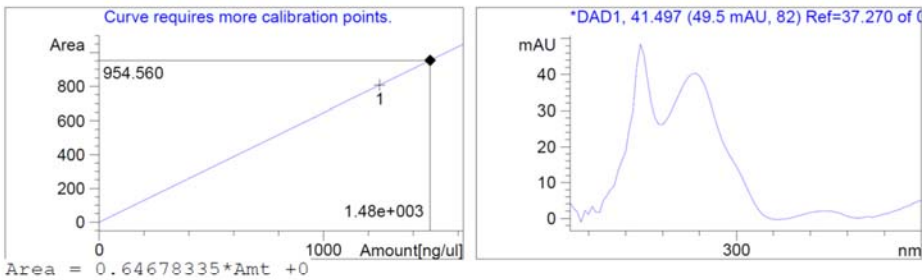
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S/N Ratio : 97.635



S/N Ratio : 1514.566



S/N Ratio : 419.787

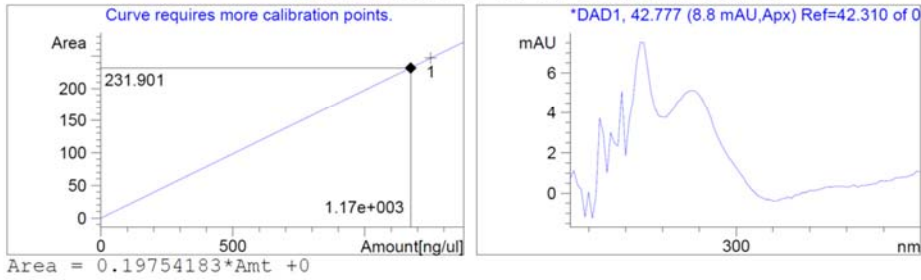


報告編號：MZ2-231000004

附件 4：山桑子萃取物之 HPLC/PDA 圖譜 (續)

***** HPLC Report *****

Acq. Operator : Paul
 Report Name : Bilberry (C)
 Report Type : PDF
 Report Creation : 1/31/2024 1:24:41 PM
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 20240116 2024-01-26 14-54-03\083-1001.D





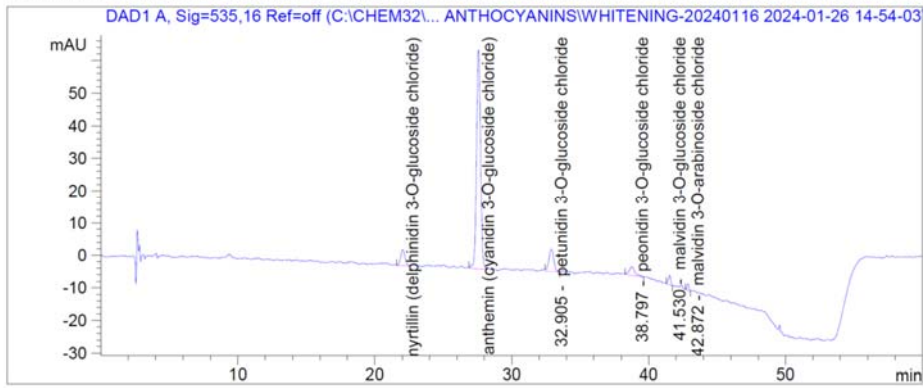
報告編號 : MZ2-231000004

附件 5 : 黑豆萃取物之 HPLC/PDA 圖譜

***** HPLC Report *****

Acq. Operator : Paul
 Report Name : Black Bean (C)
 Report Type : PDF
 Report Creation : 1/31/2024 1:24:56 PM
 Raw Data File Name : C:\CHEM32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-20240116 2024-01-26 14-54-03\084-1101.D

Instrument : HPLC-DAD (Agilent 1200 Series)
 Column : GL Sciences Inc. Inertsil ODS-2, 5 um, 4.6 x 250 mm
 Injection Time : 1/27/2024 1:13:21 AM
 Vial Location : Vial 84
 Injection Volume : 10 uL
 Analysis Method : C:\CHEM32\1\METHODS\TOTAL ANTHOCYANINS-EP-Q.M
 Acquisition method : C:\Chem32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-20240116 2024-01-26 14-54-03\TOTAL ANTHOCYANINS-EP->



DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
delphinidin 3-O	0.000		0.00	0.000

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
myrtillin (delp	22.042	VV	106.11	5.934

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
cyanidin 3-O-ga	0.000		0.00	0.000

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
delphinidin 3-O	0.000		0.00	0.000

DAD1 A, Sig=535,16 Ref=off



附件 5 : 黑豆萃取物之 HPLC/PDA 圖譜 (續)

***** HPLC Report *****

Acq. Operator : Paul
Report Name : Black Bean (C)
Report Type : PDF
Report Creation : 1/31/2024 1:24:56 PM
Raw Data File Name : C:\CHEM32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-
20240116 2024-01-26 14-54-03\084-1101.D

Compound Name	Meas. R	Peak	Area	Area %
chrysanthein (27.575	VV	1382.93	77.328

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
petunidin 3-O-g	0.000		0.00	0.000

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
cyanidin 3-O-ar	0.000		0.00	0.000

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
petunidin 3-O-g	32.905	VB	168.02	9.395

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
peonidin 3-O-ga	0.000		0.00	0.000

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
petunidin 3-O-a	0.000		0.00	0.000

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
peonidin 3-O-gl	38.797	MM	78.35	4.381

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
malvidin 3-O-ga	0.000		0.00	0.000

DAD1 A, Sig=535,16 Ref=off



報告編號 : MZ2-231000004

附件 5 : 黑豆萃取物之 HPLC/PDA 圖譜 (續)

***** HPLC Report *****

Acq. Operator : Paul
 Report Name : Black Bean (C)
 Report Type : PDF
 Report Creation : 1/31/2024 1:24:56 PM
 Raw Data File Name : C:\CHEM32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-20240116 2024-01-26 14-54-03\084-1101.D

Compound Name	Meas. R	Peak	Area	Area %
peonidin 3-O-ar	0.000		0.00	0.000

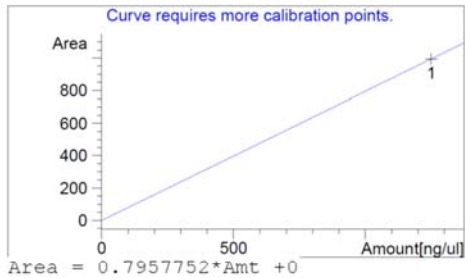
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Compound Name	Meas. R	Peak	Area	Area %
malvidin 3-O-gl	41.530	VB	35.04	1.960

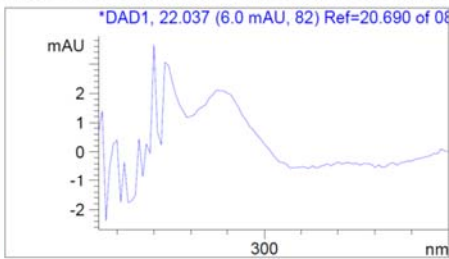
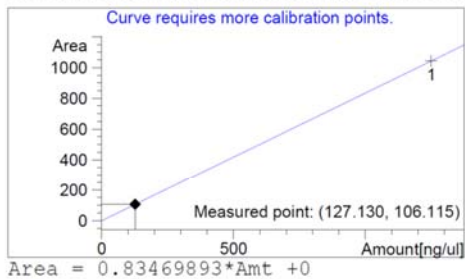
DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
malvidin 3-O-ar	42.872	BB	17.94	1.003

S/N Ratio :



S/N Ratio : 127.976



S/N Ratio :

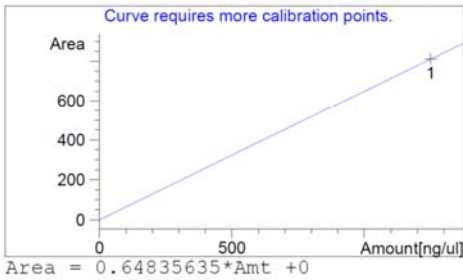


報告編號 : MZ2-231000004

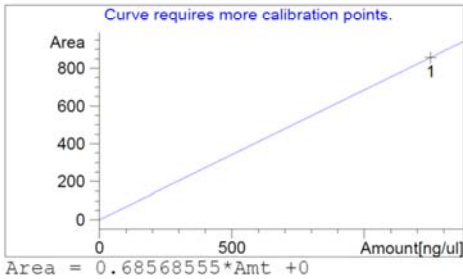
附件 5 : 黑豆萃取物之 HPLC/PDA 圖譜 (續)

***** HPLC Report *****

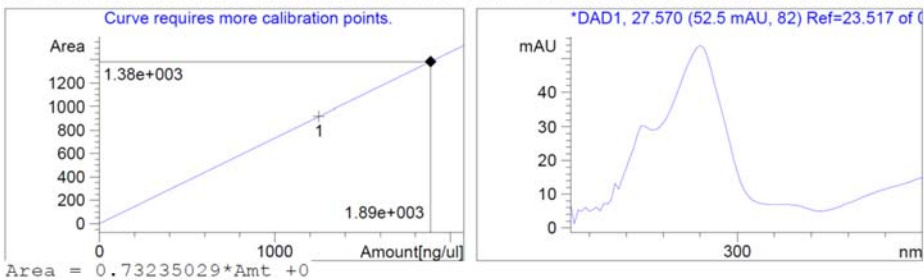
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 Raw Data File Name : C:\CHEM32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-20240116 2024-01-26 14-54-03\084-1101.D



S/N Ratio :



S/N Ratio : 1767.939



S/N Ratio :

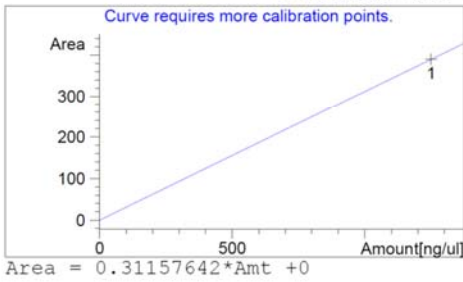


報告編號 : MZ2-231000004

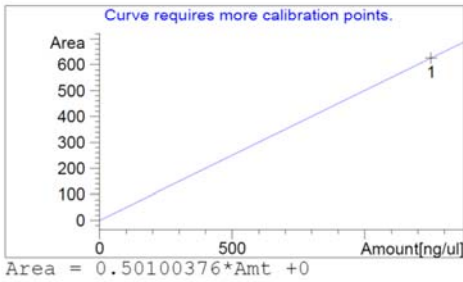
附件 5 : 黑豆萃取物之 HPLC/PDA 圖譜 (續)

***** HPLC Report *****

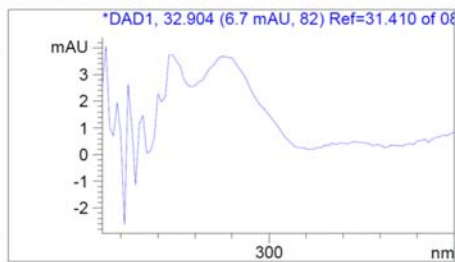
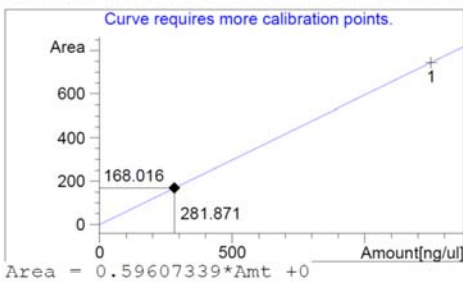
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 Raw Data File Name : C:\CHEM32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-20240116 2024-01-26 14-54-03\084-1101.D



S/N Ratio :



S/N Ratio : 181.457



S/N Ratio :

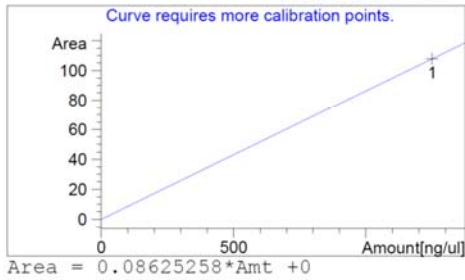


報告編號 : MZ2-231000004

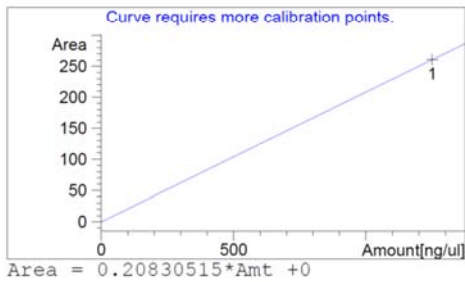
附件 5 : 黑豆萃取物之 HPLC/PDA 圖譜 (續)

***** HPLC Report *****

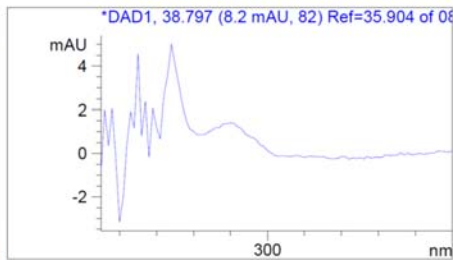
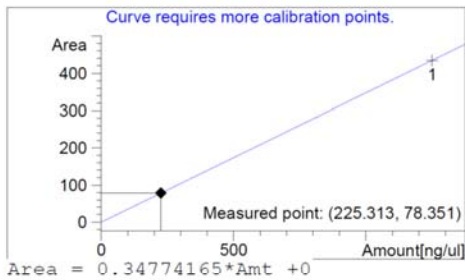
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S/N Ratio :



S/N Ratio : 69.748



S/N Ratio :

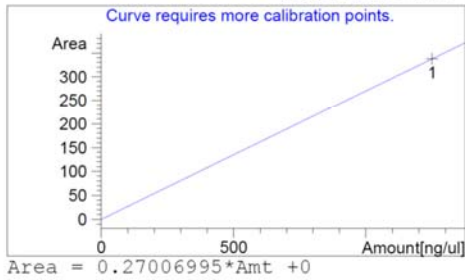


報告編號 : MZ2-231000004

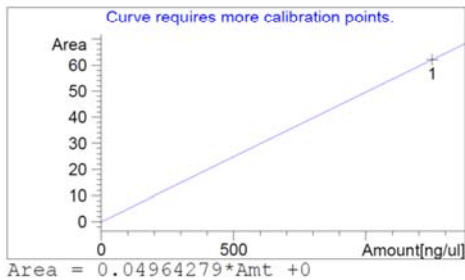
附件 5 : 黑豆萃取物之 HPLC/PDA 圖譜 (續)

***** HPLC Report *****

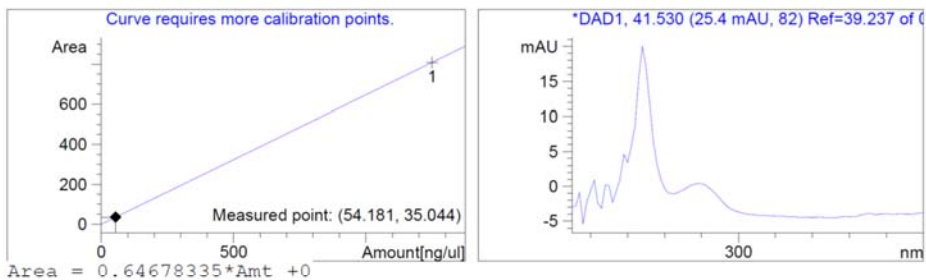
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S/N Ratio :



S/N Ratio : 77.077



S/N Ratio : 51.975

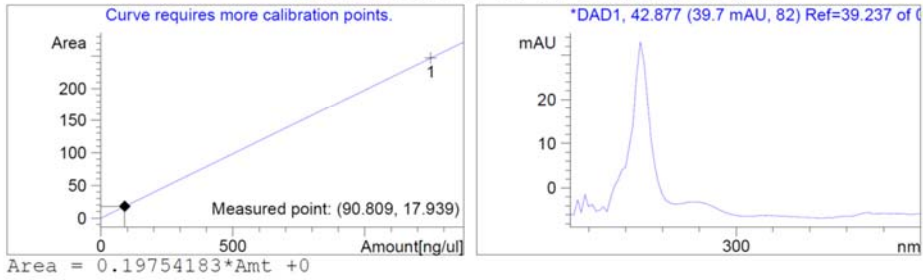


報告編號 : MZ2-231000004

附件 5 : 黑豆萃取物之 HPLC/PDA 圖譜 (續)

***** HPLC Report *****

Acq. Operator : Paul
 Report Name : Black Bean (C)
 Report Type : PDF
 Report Creation : 1/31/2024 1:24:56 PM
 Raw Data File Name : C:\CHEM32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-
 20240116 2024-01-26 14-54-03\084-1101.D





附件 6：Reference Standard 中 Total anthocyanins 之訊號面積

Reference Standard -Bilberry Dry Extract HRS	STD-1	STD-2	STD-3	STD-4	STD-5
<u>Peak 1 Area</u> Delphinidin 3- <i>O</i> -galactoside chloride	993.91	1005.19	981.36	1004.17	986.21
<u>Peak 2 Area</u> Myrtilin (delphinidin 3- <i>O</i> -glucoside chloride)	1046.73	1066.61	1072.75	1086.08	1065.49
<u>Peak 3 Area</u> Cyanidin 3- <i>O</i> -galactoside chloride	817.38	812.28	822.38	828.17	844.61
<u>Peak 4 Area</u> Delphinidin 3- <i>O</i> -arabinoside chloride	856.27	850.70	871.66	835.81	857.50
<u>Peak 5 Area</u> Chrysanthemine (Cyanidin 3- <i>O</i> -glucoside chloride)	940.30	916.87	913.64	910.30	931.23
<u>Peak 6 Area</u> Petunidin 3- <i>O</i> -galactoside chloride	372.85	384.72	368.40	368.15	372.14
<u>Peak 7 Area</u> Cyanidin 3- <i>O</i> -arabinoside chloride	632.01	623.01	621.13	632.19	620.01
<u>Peak 8 Area</u> Petunidin 3- <i>O</i> -glucoside chloride	769.04	736.37	775.97	750.24	767.47
<u>Peak 10 Area</u> Peonidin 3- <i>O</i> -galactoside chloride	122.95	133.23	121.85	117.29	127.43
<u>Peak 11 Area</u> Petunidin 3- <i>O</i> -arabinoside chloride	257.43	252.45	257.51	274.51	248.23
<u>Peak 12 Area</u> Peonidin 3- <i>O</i> -glucoside chloride	436.46	430.38	484.10	454.66	467.97
<u>Peak 13 Area</u> Malvidin 3- <i>O</i> -galactoside chloride	331.64	325.63	349.33	322.37	342.54
<u>Peak 14 Area</u> Peonidin 3- <i>O</i> -arabinoside chloride	75.99	65.36	68.13	70.36	69.61
<u>Peak 15 Area</u> Malvidin 3- <i>O</i> -glucoside chloride	808.78	821.96	809.16	824.36	810.07
<u>Peak 17 Area</u> Malvidin 3- <i>O</i> -arabinoside chloride	268.24	297.07	256.30	251.49	263.35



報告編號：MZ2-231000004

附件 7：試驗物質「我的視角金盞花葉黃素」中 Total anthocyanins 之訊號面積

Item	溶劑空白	山桑子 萃取物	黑豆 萃取物	試驗物質	Bilberry Dry Extract HRS
<u>Peak 1 Area</u>					
Delphinidin 3- <i>O</i> -galactoside chloride	0.00	1090.05	0.00	198.62	994.72
<u>Peak 2 Area</u>					
Myrtillin (delphinidin 3- <i>O</i> -glucoside chloride)	0.00	1103.56	106.11	233.76	1043.37
<u>Peak 3Area</u>					
Cyanidin 3- <i>O</i> -galactoside chloride	0.00	896.29	0.00	176.33	810.45
<u>Peak4 Area</u>					
Delphinidin 3- <i>O</i> -arabinoside chloride	0.00	864.03	0.00	147.27	857.11
<u>Peak 5 Area</u>					
Chrysanthemine (Cyanidin 3- <i>O</i> -glucoside chloride)	0.00	955.94	1382.93	309.98	915.44
<u>Peak 6 Area</u>					
Petunidin 3- <i>O</i> -galactoside chloride	0.00	404.39	0.00	74.64	389.47
<u>Peak 7 Area</u>					
Cyanidin 3- <i>O</i> -arabinoside chloride	0.00	633.64	0.00	115.97	626.25
<u>Peak 8 Area</u>					
Petunidin 3- <i>O</i> -glucoside chloride	0.00	824.83	168.02	178.80	745.09
<u>Peak 10 Area</u>					
Peonidin 3- <i>O</i> -galactoside chloride	0.00	148.98	0.00	31.79	107.82
<u>Peak 11 Area</u>					
Petunidin 3- <i>O</i> -arabinoside chloride	0.00	266.52	0.00	47.93	260.38
<u>Peak 12 Area</u>					
Peonidin 3- <i>O</i> -glucoside chloride	0.00	529.17	78.35	122.16	434.68
<u>Peak 13Area</u>					
Malvidin 3- <i>O</i> -galactoside chloride	0.00	398.94	0.00	92.55	337.59
<u>Peak 14Area</u>					
Peonidin 3- <i>O</i> -arabinoside chloride	0.00	67.89	0.00	0.00	62.05
<u>Peak 15Area</u>					
Malvidin 3- <i>O</i> -glucoside chloride	0.00	954.56	35.04	180.51	808.48
<u>Peak 17 Area</u>					
Malvidin 3- <i>O</i> -arabinoside chloride	0.00	231.90	17.94	70.89	246.93



報告編號：MZ2-231000004

附件 8：Total anthocyanins (as C3G)標準品之 COA (第一來源)

European Directorate for the Quality of Medicines & HealthCare
European Pharmacopoeia (Ph. Eur.)
7, Allée Kastner CS 30026, F-67081 Strasbourg (France)
Tel. +33 (0)3 88 41 20 35 Fax. + 33 (0)3 88 41 27 71
For any questions: www.edqm.eu (HelpDesk)



INFORMATION LEAFLET Ph. Eur. Reference Standard
BILBERRY DRY EXTRACT HRS batch 2

1. Identification

Catalogue code: Y0001788 Unit Quantity: ca 400 mg

2. Scientific Information

2.1 Intended use

Reference Standard for laboratory tests as prescribed in the European Pharmacopoeia only.
Established for use with the monograph(s): 2394, 1588, 1602.

2.2 Analytical information related to intended use

Chromatogram(s)/spectrum : See annex
The "as is" content is : **3.47% of C21H21ClO11 (cyanidin 3-O-glucoside chloride) (for 2394)**

2.3 Uncertainty of the assigned value, when applicable

The uncertainty of the assigned value is not stated since it is considered to be negligible in relation to the defined limits of the method-specific assays for which the reference standard is used. Please also refer to Ph. Eur. chapter 5.12.

2.4 Validity

Ph. Eur. RS are periodically tested to ensure their continuous fitness for purpose. For each valid Ph. Eur. RS, a Batch Validity Statement at the time of use can be downloaded and printed from the EDQM website (Reference Standards Database).

2.5 Instructions for use

The container should not be opened until required for use. Allow the closed container to equilibrate at ambient temperature before opening to avoid uptake of moisture. Use "as is". Do not dry/desiccate before use. Ph. Eur. RS are for immediate use. Once the container has been opened, its entire content must be used immediately. Any further storage and re-use are not warranted.

3. Storage conditions

In the original container at -20°C ± 5°C, protected from light. Re-instate promptly upon receipt.

4. Safety

For scientific research, development and analysis only. Handle in accordance with good occupational hygiene, safety and laboratory practices and take precautions to avoid exposure. More information is available at the EDQM website (Reference Standards Database): Safety Data Sheet for hazardous chemicals and Safety Data Statement for other materials.

5. Shipping conditions

Each Ph. Eur. RS is shipped under conditions that preserve its suitability for use and comply with the relevant regulations. For more details see EDQM website (Reference Standards Database).

6. Warranties, Liabilities and responsibility

- Safety

In the event of any safety concerns, please read carefully the safety data sheets or safety data statements available for each product. It is for Purchasers to determine independently the risks associated with the items and to take appropriate safety measures, including the provision of appropriate information, equipment and training of those persons coming into contact with the item.

- Warranties

Except for the use of Reference Standards in tests and assays carried out in accordance with the official methods of the European Pharmacopoeia and by professionals with the necessary technical skills and at their own

Signed on: 29/06/2017
FORM/597 Rev. 01 /16/01/2017



00Y0001788

Rev.3 1/3



附件 8：Total anthocyanins (as C3G)標準品之 COA (第一來源) (續)

discretion and risk, the EDQM makes no representation, contractual statement, or expression of opinion concerning the quality or safety of any item supplied, the presence of any defect in it, or its fitness for any particular purpose except that as described above.

The EDQM does not guarantee that the items will meet the Purchaser's specific expectations. The EDQM only guarantees that the items (i) were fit for use according to EDQM's intended use of the product ;(ii) were fit for use at the moment that they were handed over to the carrier being responsible for the delivery of the items to the Purchaser with such accessories including packaging, delivery instructions or other instructions for the item's delivery and reception as the Purchaser may expect to receive; and (iii) possess qualities and performance capabilities which are normal in goods of the same type and which the Purchaser may expect given the nature of the goods and the information provided on the EDQM's website and (iv) the carrier and the Purchaser received clear and accurate instructions for the item's delivery and reception. No other guarantees, whether explicitly or implied, are given by the EDQM. The EDQM does not guarantee that the purchase or use of the items will not infringe any intellectual property rights, in particular patents.

- Limitation of Liability

In no event shall the EDQM be liable for any damages due to the use of items, included, but not limited to loss of business, loss of profit, loss of use, loss of opportunity, costs of procurement of substitute goods, services or systems or for any indirect, special, incidental, punitive or consequential damages, however caused and, whether in contract, tort or under any other theory of liability, whether or not the Purchaser has been advised of the possibility of such damages or costs.

Any liability of the EDQM for injury, loss or damage arising from the supply or use of any such item is in any event hereby excluded to the fullest extent permitted internationally accepted commercial standards; in particular, no liability is accepted for loss of profits or indirect or consequential loss.

7. Arbitration & Applicable Law

The aim of the EDQM is to settle any disputes amicably in the framework of its Terms and Conditions. In accordance with the provisions of article 21 of the General Agreement on the Privileges and Immunities of the Council of Europe, all disputes between the EDQM and the Purchaser as regards the application of these General Terms shall be submitted, if a mutual agreement cannot be reached between the parties, to arbitration as laid down in Order No. 481 of the Secretary General, approved by the Committee of Ministers.

This transaction shall be governed by the Council of Europe's relevant regulatory framework, complemented, where necessary, by French national substantive law.

8. Citation

Users shall ensure that any reference made to an EDQM Reference Standard in any publication, presentation or public document (ex. scientific articles, data sheets for kits) bears the exact name, and catalogue code of the Reference Standard and the exact name and address of EDQM as given on the first page of this information leaflet.

9. Adoption

The suitability for intended use has been officially adopted by the European Pharmacopoeia Commission.

10. Signature

This document is electronically signed by:

Dr Pierre Leveau
Head of the Quality, Safety and Environment Division



報告編號：MZ2-231000004

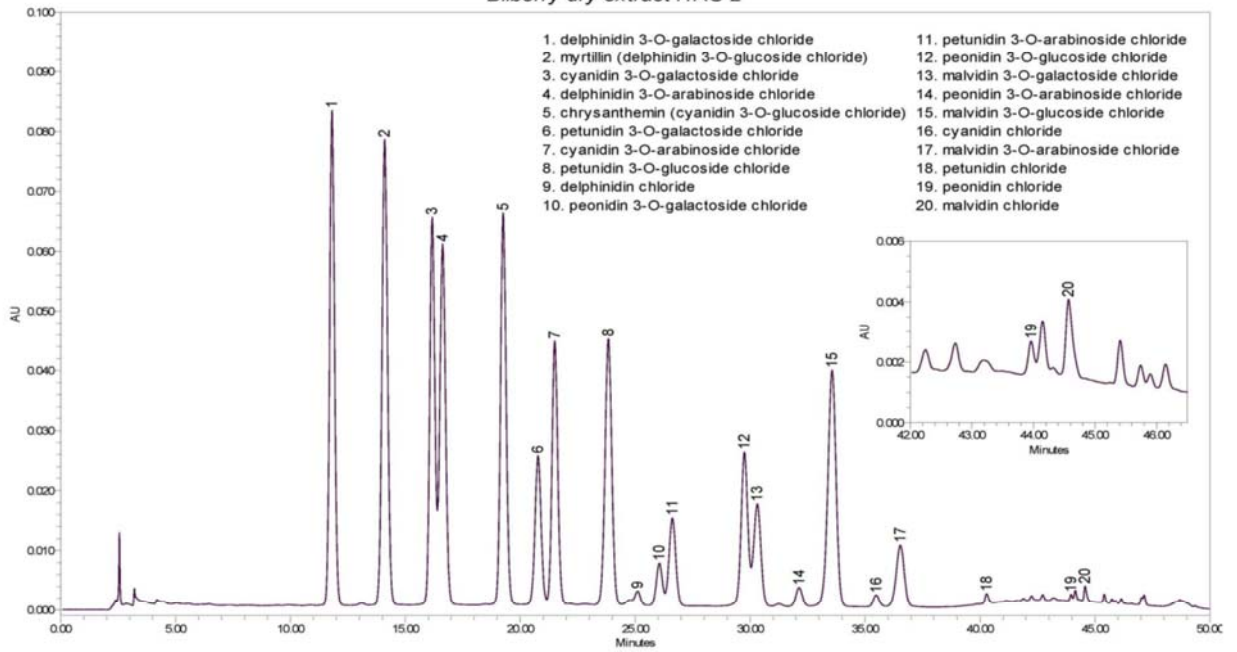
附件 8：Total anthocyanins (as C3G)標準品之 COA (第一來源) (續)

Annex 1:



LIQUID CHROMATOGRAPHY REPORT

Bilberry dry extract HRS 2



Project Name: LC10691Bilberrydryextract

Result Id 2819

Signed on: 29/06/2017
FORM/597 Rev. 01 [16/01/2017]

Cat. Code: Y0001788

Rev. 3

3/3



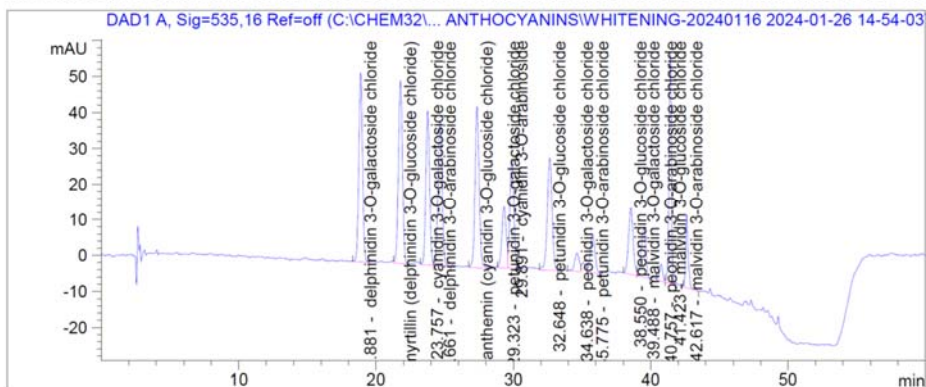
報告編號 : MZ2-231000004

附件 9 : 指標成分 Total anthocyanins (as C3G)之準確度及精密度原始圖譜

***** HPLC Report *****

Acq. Operator : Paul
 Report Name : Bilberry Dry Extract HRS
 Report Type : PDF
 Report Creation : 1/31/2024 1:21:55 PM
 Raw Data File Name : C:\CHEM32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-20240116 2024-01-26 14-54-03\082-0401.D

Instrument : HPLC-DAD (Agilent 1200 Series)
 Column : GL Sciences Inc. Inertsil ODS-2, 5 um, 4.6 x 250 mm
 Injection Time : 1/26/2024 6:00:05 PM
 Vial Location : Vial 82
 Injection Volume : 10 uL
 Analysis Method : C:\CHEM32\1\METHODS\TOTAL ANTHOCYANINS-EP-Q.M
 Acquisition method : C:\Chem32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-20240116 2024-01-26 14-54-03\TOTAL ANTHOCYANINS-EP->



DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
delphinidin 3-O	18.881	VB	993.91	11.385

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
myrtillin (delp	21.778	VB	1046.73	11.990

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
cyanidin 3-O-ga	23.757	VV	817.38	9.363

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
delphinidin 3-O	24.661	VB	856.27	9.808

DAD1 A, Sig=535,16 Ref=off



報告編號 : MZ2-231000004



附件 9 : 指標成分 Total anthocyanins (as C3G)之準確度及精密度原始圖譜 (續)

***** HPLC Report *****

Acq. Operator : Paul
Report Name : Bilberry Dry Extract HRS
Report Type : PDF
Report Creation : 1/31/2024 1:21:55 PM
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Table with 5 columns: Compound Name, Meas. R, Peak, Area, Area %. Row 1: chrysanthem (27.354 VB 940.30 10.771

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Table with 5 columns: Compound Name, Meas. R, Peak, Area, Area %. Row 1: petunidin 3-O-g 29.323 VV 372.85 4.271

DAD1 A, Sig=535,16 Ref=off

Table with 5 columns: Compound Name, Meas. R, Peak, Area, Area %. Row 1: cyanidin 3-O-ar 29.891 VB 632.01 7.240

DAD1 A, Sig=535,16 Ref=off

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DAD1 A, Sig=535,16 Ref=off

Table with 5 columns: Compound Name, Meas. R, Peak, Area, Area %. Row 1: peonidin 3-O-ga 34.638 MF 122.95 1.408

DAD1 A, Sig=535,16 Ref=off

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DAD1 A, Sig=535,16 Ref=off

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DAD1 A, Sig=535,16 Ref=off

Table with 5 columns: Compound Name, Meas. R, Peak, Area, Area %. Row 1: malvidin 3-O-ga 39.488 VB 331.64 3.799

DAD1 A, Sig=535,16 Ref=off

附件 9 : 指標成分 Total anthocyanins (as C3G)之準確度及精密度原始圖譜 (續)

***** HPLC Report *****

Acq. Operator : Paul
Report Name : Bilberry Dry Extract HRS
Report Type : PDF
Report Creation : 1/31/2024 1:21:55 PM
Raw Data File Name : C:\CHEM32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-20240116 2024-01-26 14-54-03\082-0401.D

Compound Name	Meas. R	Peak	Area	Area %
peonidin 3-O-ar	40.757	VV	75.99	0.870

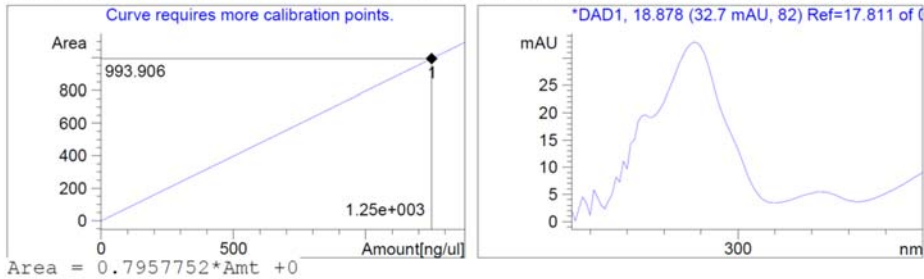
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Compound Name	Meas. R	Peak	Area	Area %
malvidin 3-O-gl	41.423	VV	808.78	9.264

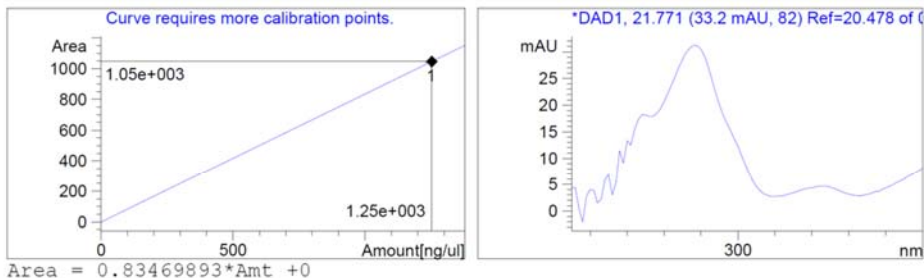
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Compound Name	Meas. R	Peak	Area	Area %
malvidin 3-O-ar	42.617	VB	268.24	3.073

S/N Ratio : 681.171



S/N Ratio : 657.000

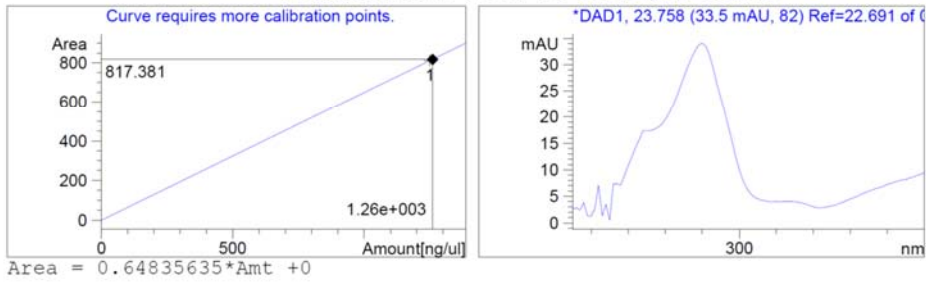


S/N Ratio : 553.621

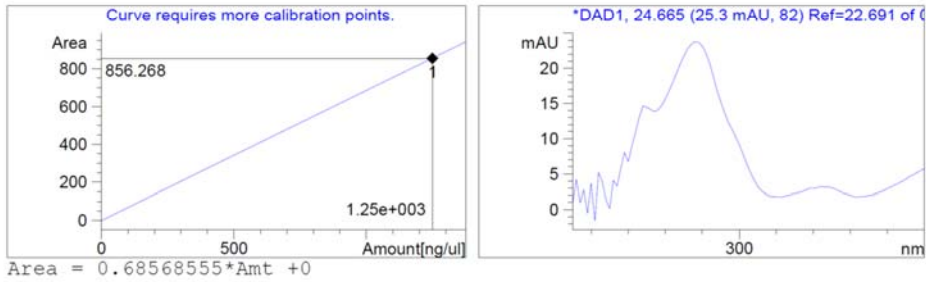
附件 9 : 指標成分 Total anthocyanins (as C3G)之準確度及精密度原始圖譜 (續)

***** HPLC Report *****

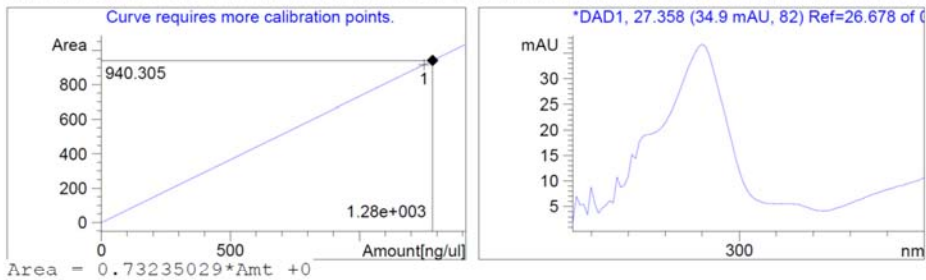
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20240116 2024-01-26 14-54-03\082-0401.D



S/N Ratio : 519.030



S/N Ratio : 581.494



S/N Ratio : 219.925

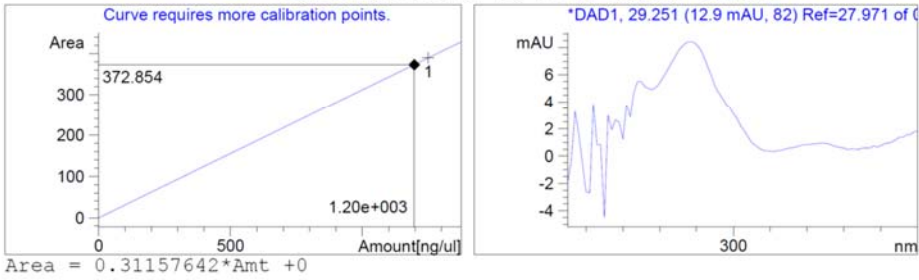


報告編號 : MZ2-231000004

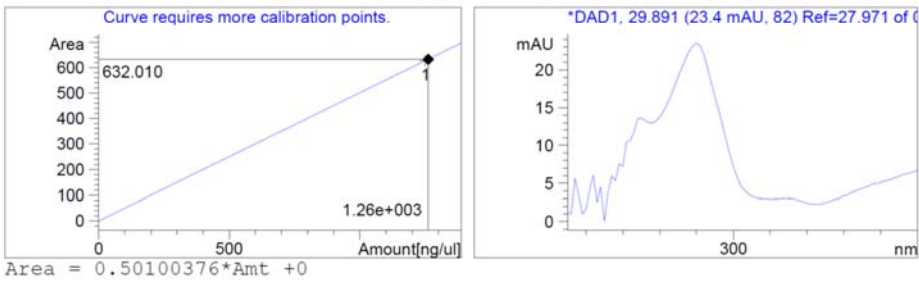
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***** HPLC Report *****

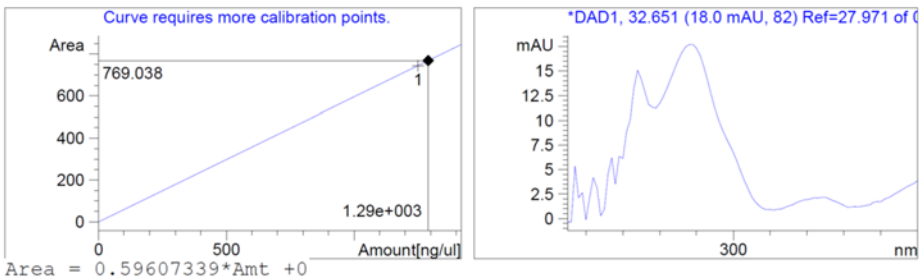
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Report Creation : 1/31/2024 1:21:55 PM
Raw Data File Name : C:\CHEM32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-20240116 2024-01-26 14-54-03\082-0401.D



S/N Ratio : 393.527



S/N Ratio : 405.893



S/N Ratio : 66.561

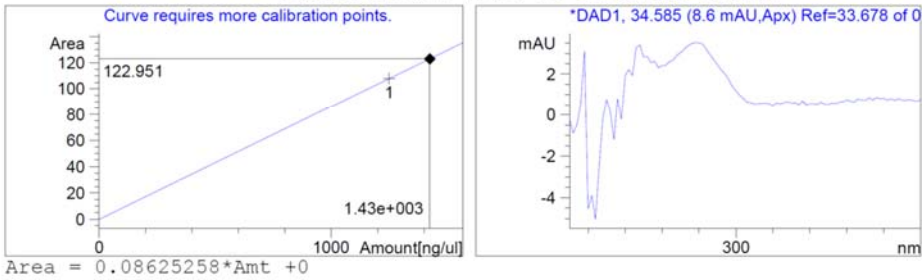


報告編號 : MZ2-231000004

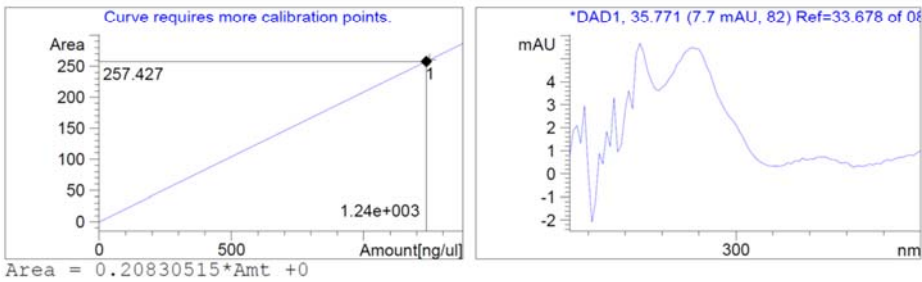
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***** HPLC Report *****

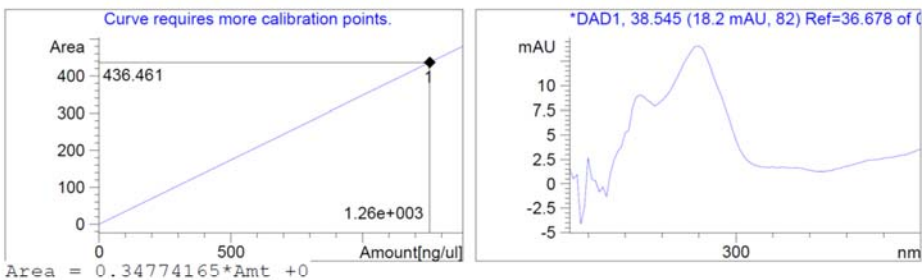
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S/N Ratio : 136.984



S/N Ratio : 239.006

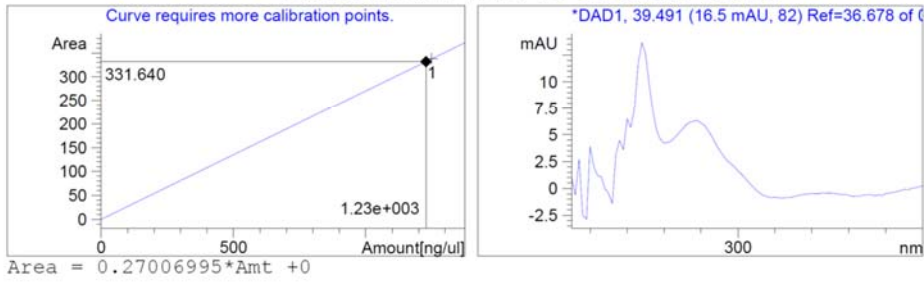


S/N Ratio : 179.548

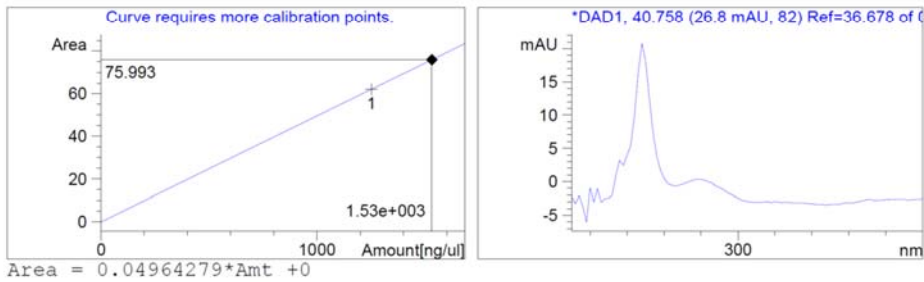
附件 9 : 指標成分 Total anthocyanins (as C3G)之準確度及精密度原始圖譜 (續)

***** HPLC Report *****

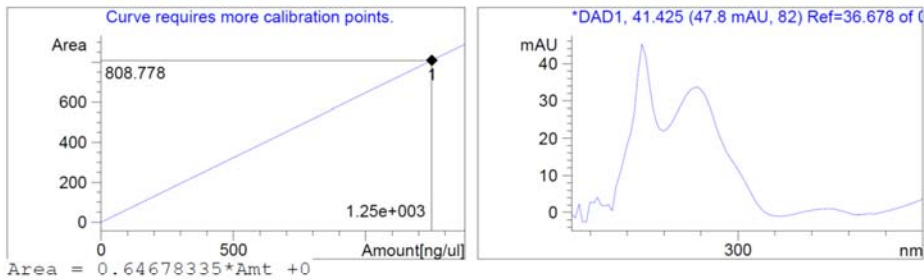
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S/N Ratio : 60.224



S/N Ratio : 824.723



S/N Ratio : 262.308

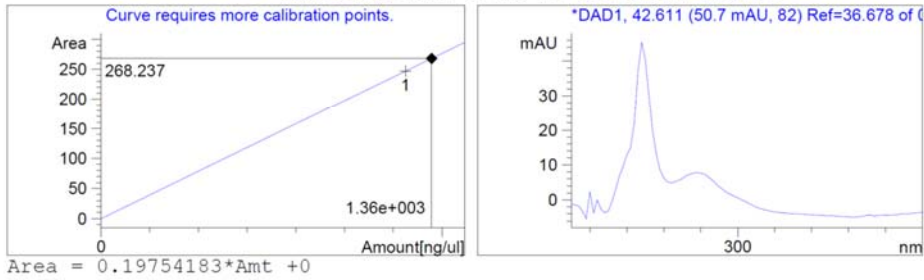


報告編號：MZ2-231000004

附件 9：指標成分 Total anthocyanins (as C3G)之準確度及精密度原始圖譜 (續)

***** HPLC Report *****

Acq. Operator : Paul
 Report Name : Bilberry Dry Extract HRS
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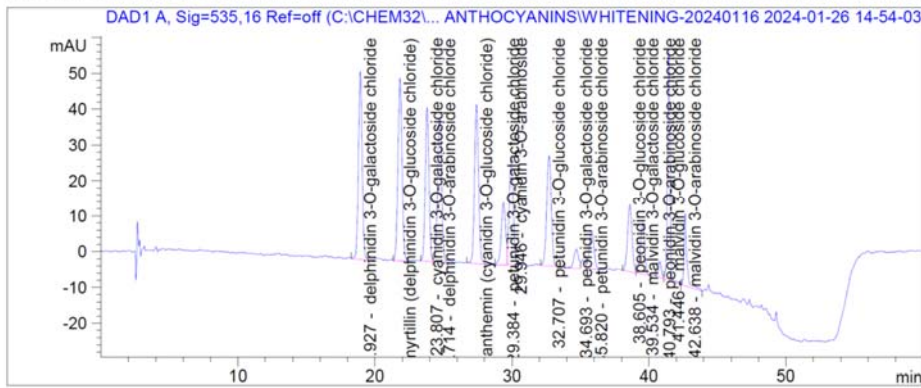
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附件 9：指標成分 Total anthocyanins (as C3G)之準確度及精密度原始圖譜 (續)

***** HPLC Report *****

Acq. Operator : Paul
 Report Name : Bilberry Dry Extract HRS
 Report Type : PDF
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 Raw Data File Name : C:\CHEM32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-20240116 2024-01-26 14-54-03\082-0501.D

Instrument : HPLC-DAD (Agilent 1200 Series)
 Column : GL Sciences Inc. Inertsil ODS-2, 5 um, 4.6 x 250 mm
 Injection Time : 1/26/2024 7:01:58 PM
 Vial Location : Vial 82
 Injection Volume : 10 uL
 Analysis Method : C:\CHEM32\1\METHODS\TOTAL ANTHOCYANINS-EP-Q.M
 Acquisition method : C:\Chem32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-20240116 2024-01-26 14-54-03\TOTAL ANTHOCYANINS-EP->



DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
delphinidin 3-O	18.927	VV	1005.19	11.525

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
myrtillin (delp	21.827	BV	1066.61	12.229

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
cyanidin 3-O-ga	23.807	BV	812.28	9.313

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
delphinidin 3-O	24.714	VB	850.70	9.754

DAD1 A, Sig=535,16 Ref=off



報告編號 : MZ2-231000004

附件 9 : 指標成分 Total anthocyanins (as C3G)之準確度及精密度原始圖譜 (續)

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***** HPLC Report *****
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Acq. Operator      : Paul
Report Name       : Bilberry Dry Extract HRS
Report Type       : PDF
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-----
Compound Name     Meas. R   Peak     Area     Area %
-----
chrysanthemins ( 27.413   BB       916.87   10.512
-----
DAD1 A, Sig=535,16 Ref=off
-----
Compound Name     Meas. R   Peak     Area     Area %
-----
petunidin 3-O-g  29.384   BV       384.72   4.411
-----
DAD1 A, Sig=535,16 Ref=off
-----
Compound Name     Meas. R   Peak     Area     Area %
-----
cyanidin 3-O-ar   29.946   VB       623.01   7.143
-----
DAD1 A, Sig=535,16 Ref=off
-----
Compound Name     Meas. R   Peak     Area     Area %
-----
petunidin 3-O-g  32.707   VB       736.37   8.443
-----
DAD1 A, Sig=535,16 Ref=off
-----
Compound Name     Meas. R   Peak     Area     Area %
-----
peonidin 3-O-ga   34.693   BV       133.23   1.528
-----
DAD1 A, Sig=535,16 Ref=off
-----
Compound Name     Meas. R   Peak     Area     Area %
-----
petunidin 3-O-a  35.820   VB       252.45   2.894
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DAD1 A, Sig=535,16 Ref=off
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Compound Name     Meas. R   Peak     Area     Area %
-----
peonidin 3-O-gl   38.605   BV       430.38   4.935
-----
DAD1 A, Sig=535,16 Ref=off
-----
Compound Name     Meas. R   Peak     Area     Area %
-----
malvidin 3-O-ga  39.534   VB       325.63   3.734
-----
DAD1 A, Sig=535,16 Ref=off

```



附件 9 : 指標成分 Total anthocyanins (as C3G)之準確度及精密度原始圖譜 (續)

***** HPLC Report *****

Acq. Operator : Paul
Report Name : Bilberry Dry Extract HRS
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Raw Data File Name : C:\CHEM32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-20240116 2024-01-26 14-54-03\082-0501.D

Compound Name	Meas. R	Peak	Area	Area %
peonidin 3-O-ar	40.793	BV	65.36	0.749

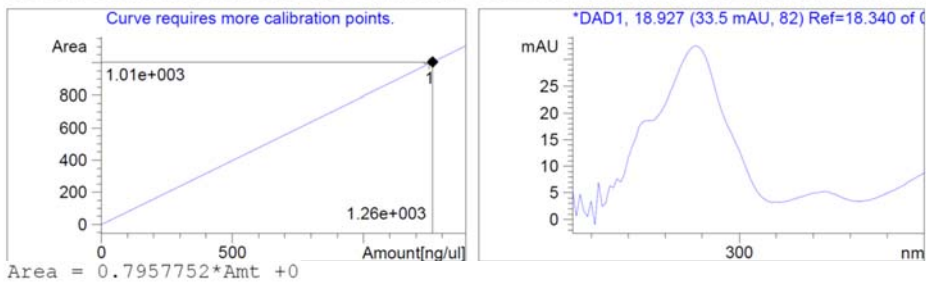
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Compound Name	Meas. R	Peak	Area	Area %
malvidin 3-O-gl	41.446	VB	821.96	9.424

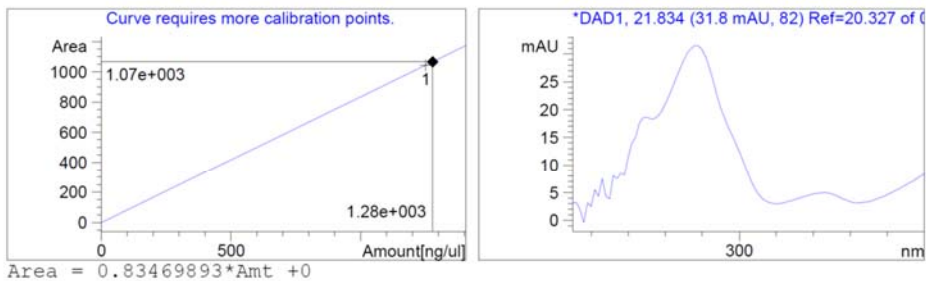
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Compound Name	Meas. R	Peak	Area	Area %
malvidin 3-O-ar	42.638	BB	297.07	3.406

S/N Ratio : 963.200



S/N Ratio : 935.677



S/N Ratio : 785.513

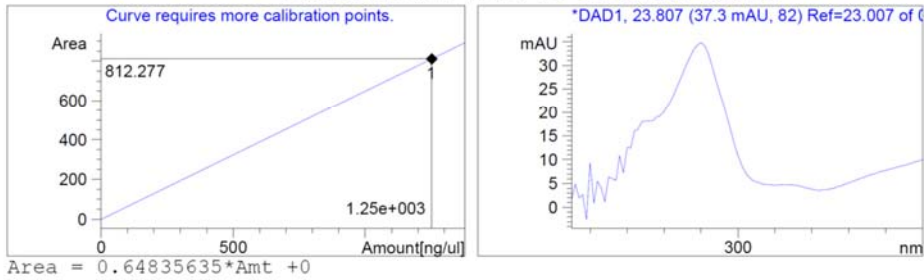


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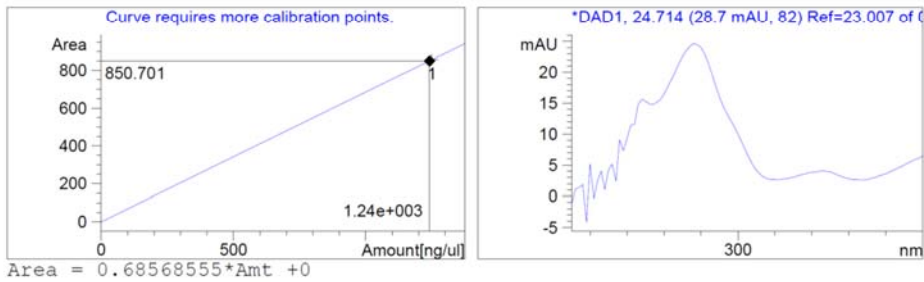
附件 9 : 指標成分 Total anthocyanins (as C3G)之準確度及精密度原始圖譜 (續)

***** HPLC Report *****

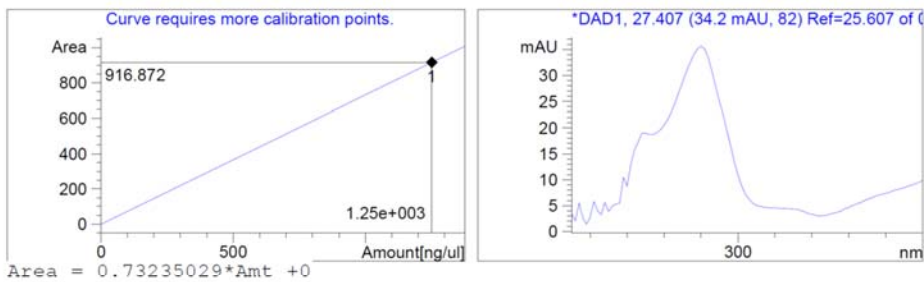
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S/N Ratio : 739.913



S/N Ratio : 815.283



S/N Ratio : 318.590

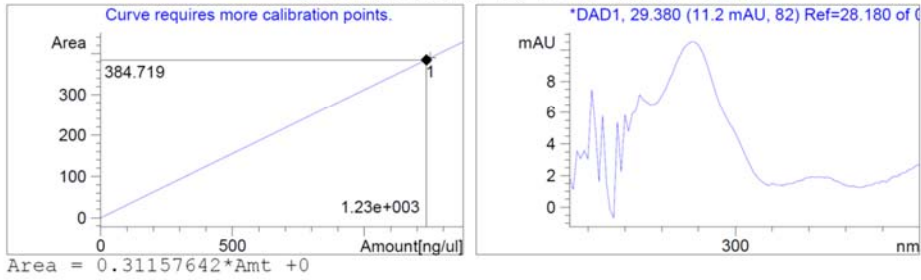


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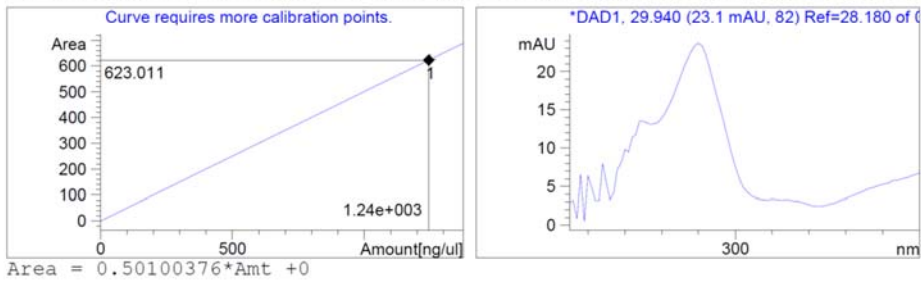
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***** HPLC Report *****

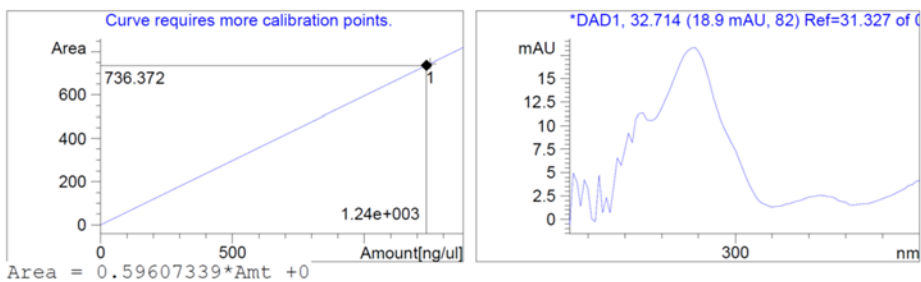
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S/N Ratio : 554.441



S/N Ratio : 567.751



S/N Ratio : 99.206

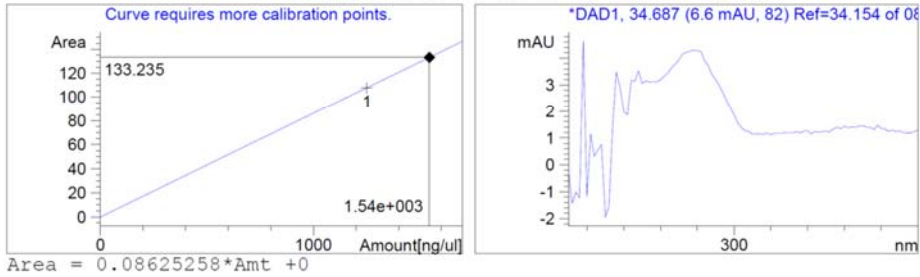


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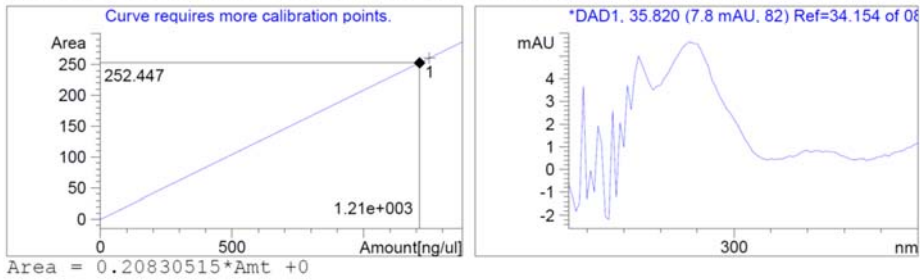
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***** HPLC Report *****

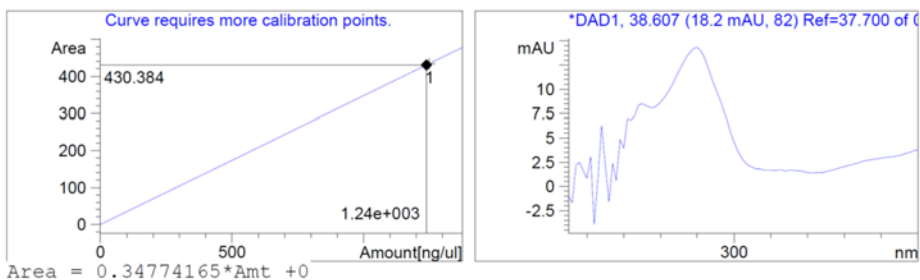
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S/N Ratio : 191.085



S/N Ratio : 342.321

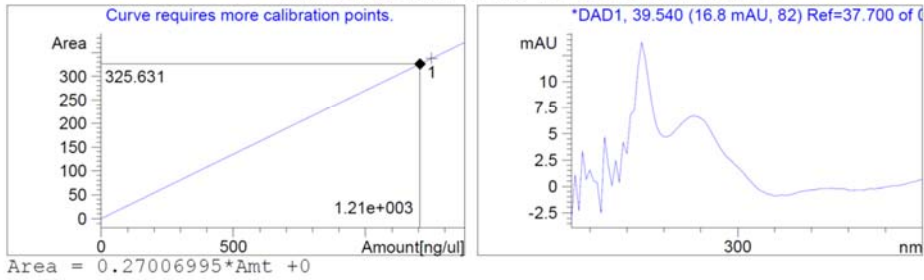


S/N Ratio : 258.989

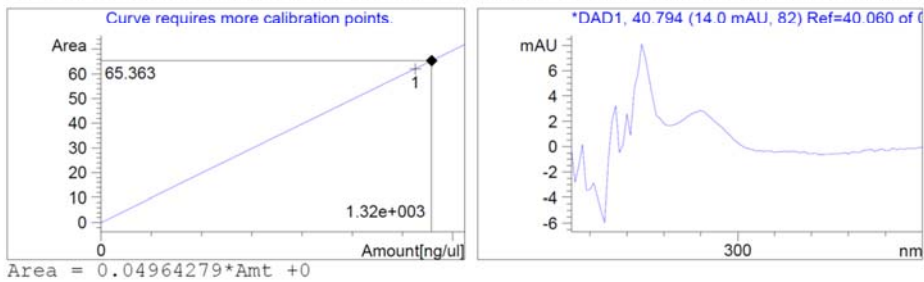
附件 9 : 指標成分 Total anthocyanins (as C3G)之準確度及精密度原始圖譜 (續)

***** HPLC Report *****

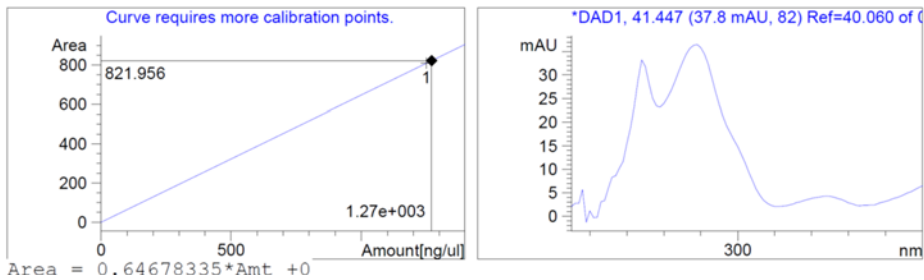
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S/N Ratio : 80.970



S/N Ratio : 1173.704



S/N Ratio : 366.794

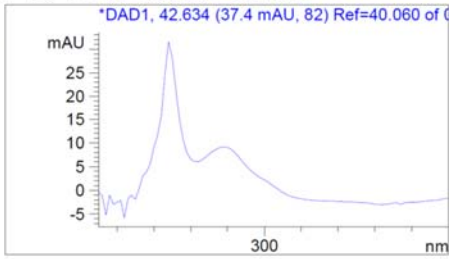
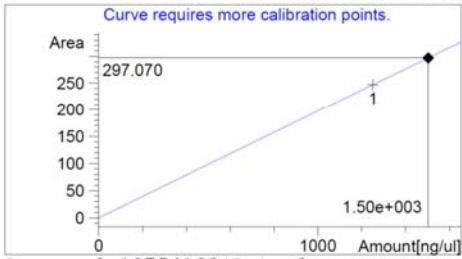


報告編號：MZ2-231000004

附件 9：指標成分 Total anthocyanins (as C3G)之準確度及精密度原始圖譜 (續)

***** HPLC Report *****

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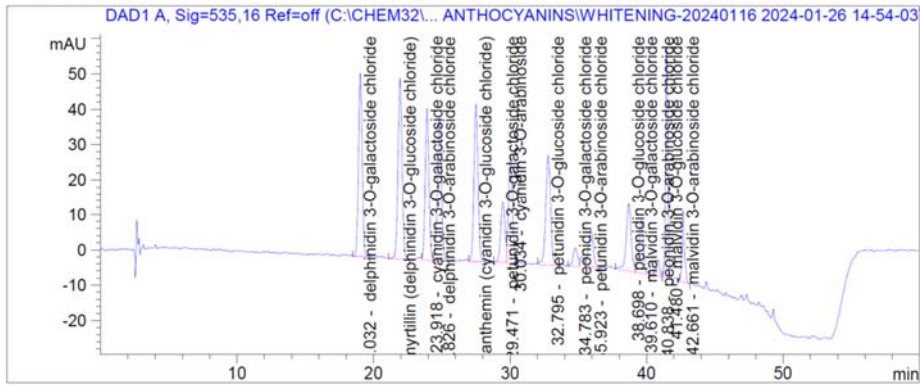
報告編號：MZ2-231000004

附件 9：指標成分 Total anthocyanins (as C3G)之準確度及精密度原始圖譜 (續)

***** HPLC Report *****

Acq. Operator : Paul
 Report Name : Bilberry Dry Extract HRS
 Report Type : PDF
 Report Creation : 1/31/2024 1:23:18 PM
 Raw Data File Name : C:\CHEM32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-20240116 2024-01-26 14-54-03\082-0601.D

Instrument : HPLC-DAD (Agilent 1200 Series)
 Column : GL Sciences Inc. Inertsil ODS-2, 5 um, 4.6 x 250 mm
 Injection Time : 1/26/2024 8:03:52 PM
 Vial Location : Vial 82
 Injection Volume : 10 uL
 Analysis Method : C:\CHEM32\1\METHODS\TOTAL ANTHOCYANINS-EP-Q.M
 Acquisition method : C:\Chem32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-20240116 2024-01-26 14-54-03\TOTAL ANTHOCYANINS-EP->



DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
delphinidin 3-O	19.032	BV	981.36	11.185

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
myrtillin (delp	21.944	BB	1072.75	12.227

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
cyanidin 3-O-ga	23.918	VV	822.38	9.373

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
delphinidin 3-O	24.826	VB	871.66	9.935

DAD1 A, Sig=535,16 Ref=off



報告編號 : MZ2-231000004



附件 9 : 指標成分 Total anthocyanins (as C3G)之準確度及精密度原始圖譜 (續)

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***** HPLC Report *****
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Report Type       : PDF
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                  20240116 2024-01-26 14-54-03\082-0601.D
-----
  Compound Name   Meas. R   Peak    Area    Area %
  -----
chrysanthemini ( 27.504   VB     913.64   10.413
-----
DAD1 A, Sig=535,16 Ref=off
-----
  Compound Name   Meas. R   Peak    Area    Area %
  -----
petunidin 3-O-g  29.471   VV     368.40    4.199
-----
DAD1 A, Sig=535,16 Ref=off
-----
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  -----
cyanidin 3-O-ar  30.034   VB     621.13    7.079
-----
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  Compound Name   Meas. R   Peak    Area    Area %
  -----
petunidin 3-O-g  32.795   VV     775.97    8.844
-----
DAD1 A, Sig=535,16 Ref=off
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  Compound Name   Meas. R   Peak    Area    Area %
  -----
peonidin 3-O-ga  34.783   BV     121.85    1.389
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DAD1 A, Sig=535,16 Ref=off
-----
  Compound Name   Meas. R   Peak    Area    Area %
  -----
petunidin 3-O-a  35.923   VB     257.51    2.935
-----
DAD1 A, Sig=535,16 Ref=off
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  Compound Name   Meas. R   Peak    Area    Area %
  -----
peonidin 3-O-gl  38.698   BV     484.10    5.518
-----
DAD1 A, Sig=535,16 Ref=off
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  Compound Name   Meas. R   Peak    Area    Area %
  -----
malvidin 3-O-ga  39.610   VV     349.33    3.982
-----
DAD1 A, Sig=535,16 Ref=off

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附件 9 : 指標成分 Total anthocyanins (as C3G)之準確度及精密度原始圖譜 (續)

***** HPLC Report *****

Acq. Operator : Paul
Report Name : Bilberry Dry Extract HRS
Report Type : PDF
Report Creation : 1/31/2024 1:23:18 PM
Raw Data File Name : C:\CHEM32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-20240116 2024-01-26 14-54-03\082-0601.D

Compound Name	Meas. R	Peak	Area	Area %
peonidin 3-O-ar	40.838	BV	68.13	0.776

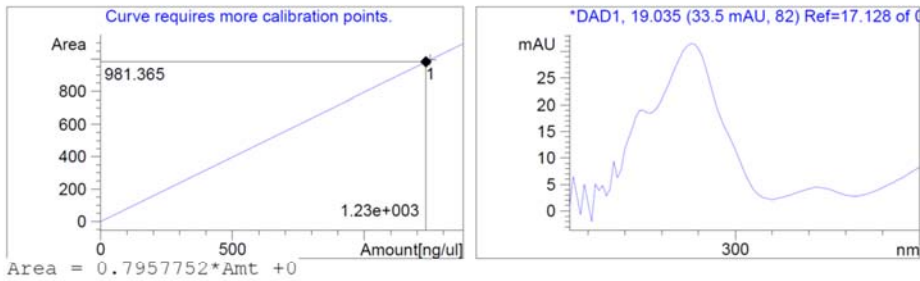
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Compound Name	Meas. R	Peak	Area	Area %
malvidin 3-O-gl	41.480	VB	809.16	9.223

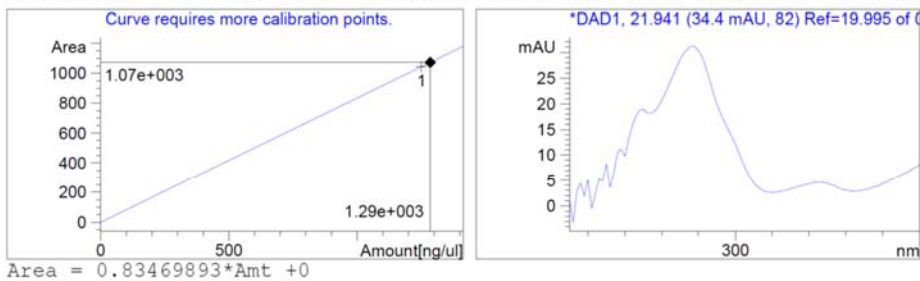
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Compound Name	Meas. R	Peak	Area	Area %
malvidin 3-O-ar	42.661	VV	256.30	2.921

S/N Ratio : 474.624



S/N Ratio : 466.439



S/N Ratio : 391.439

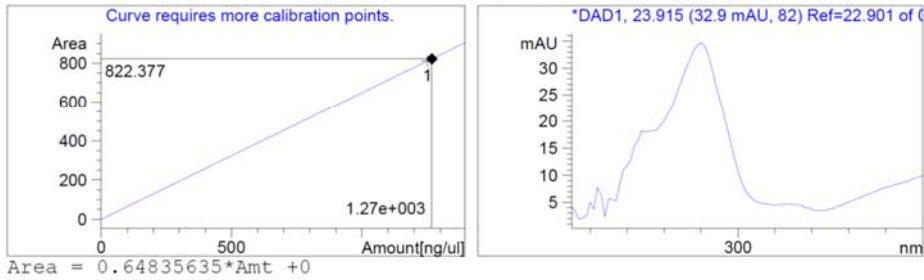


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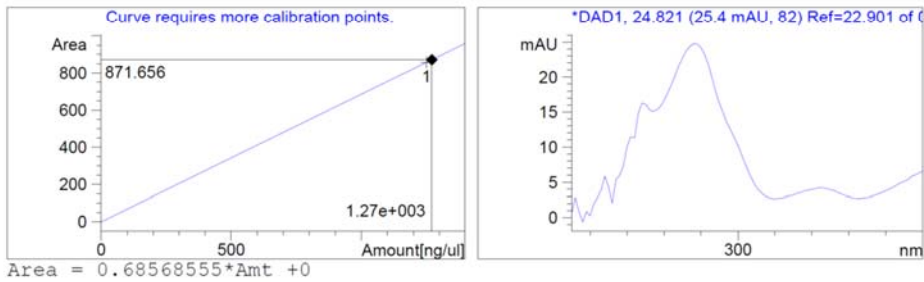
附件 9 : 指標成分 Total anthocyanins (as C3G)之準確度及精密度原始圖譜 (續)

***** HPLC Report *****

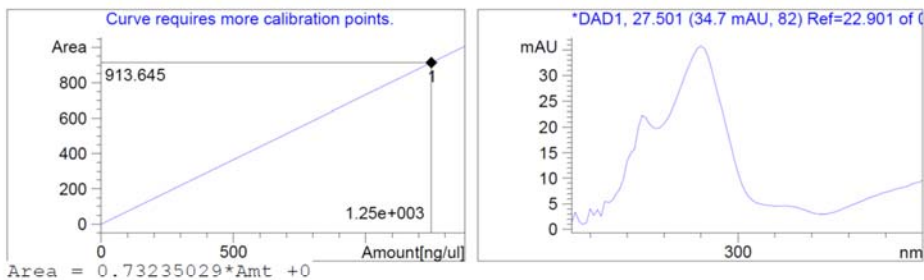
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S/N Ratio : 369.893



S/N Ratio : 405.779



S/N Ratio : 154.019

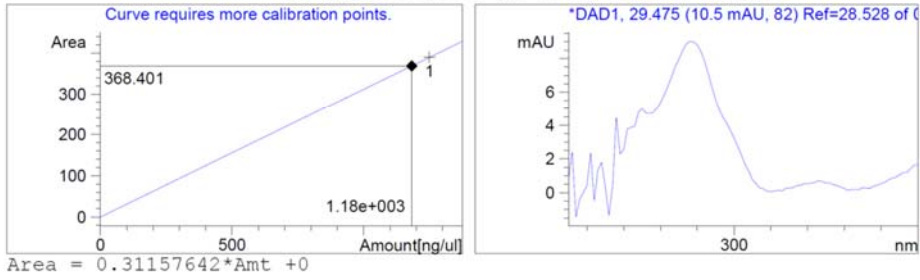


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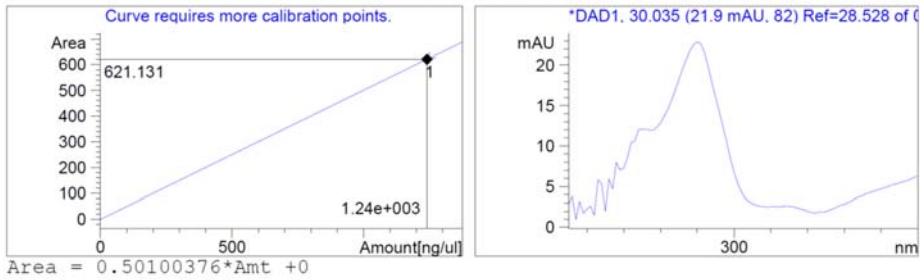
附件 9 : 指標成分 Total anthocyanins (as C3G)之準確度及精密度原始圖譜 (續)

***** HPLC Report *****

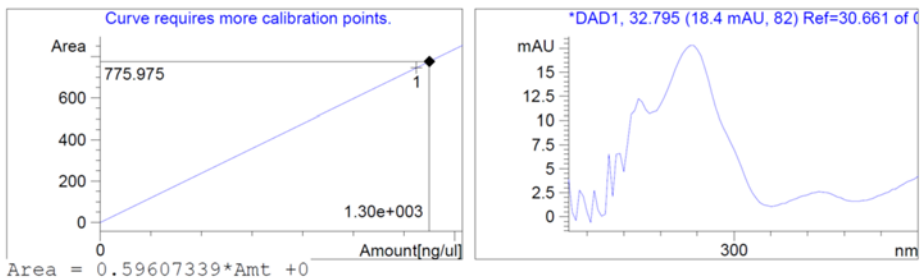
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S/N Ratio : 275.847



S/N Ratio : 284.884



S/N Ratio : 46.601

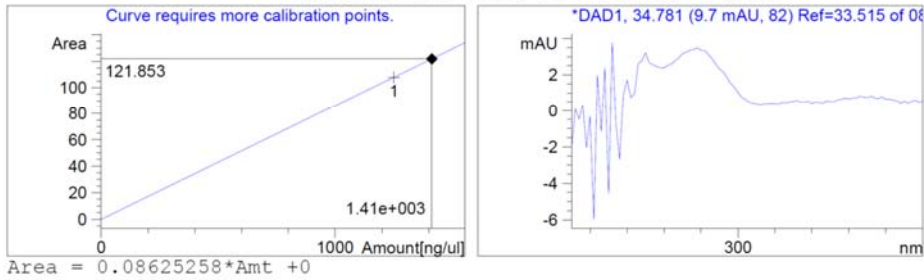


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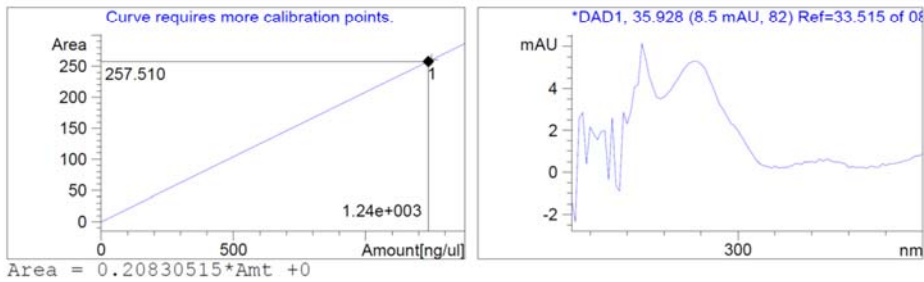
附件 9 : 指標成分 Total anthocyanins (as C3G)之準確度及精密度原始圖譜 (續)

***** HPLC Report *****

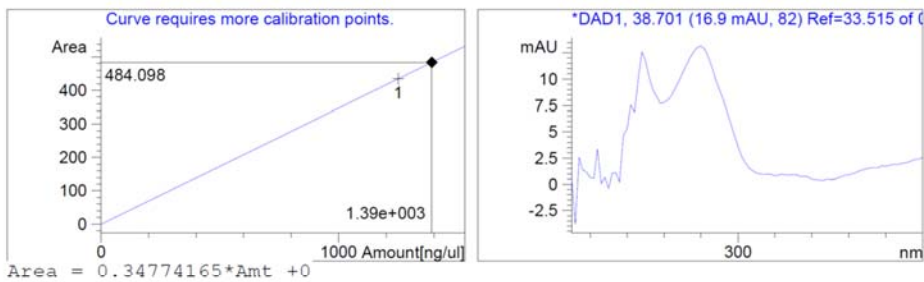
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S/N Ratio : 95.606



S/N Ratio : 174.096



S/N Ratio : 135.689

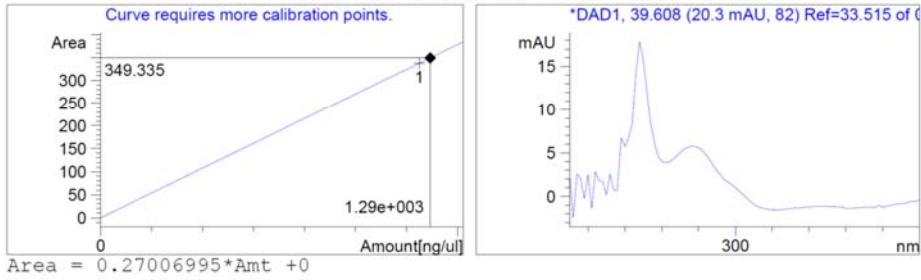


報告編號 : MZ2-231000004

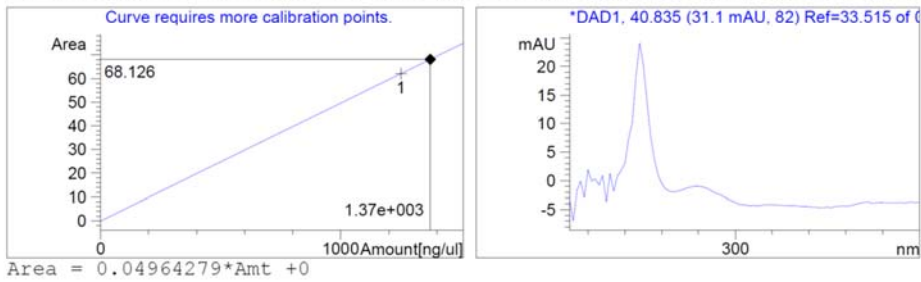
附件 9 : 指標成分 Total anthocyanins (as C3G)之準確度及精密度原始圖譜 (續)

***** HPLC Report *****

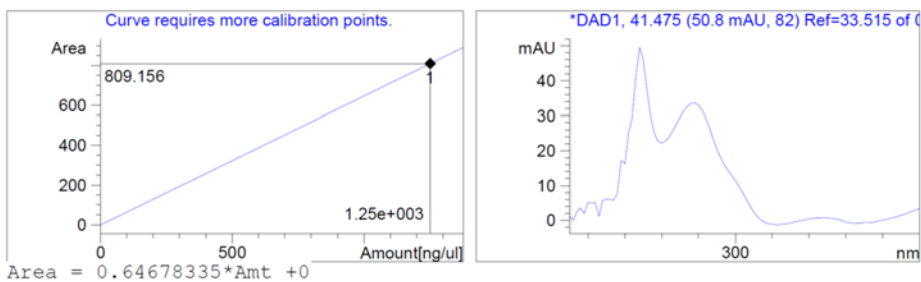
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S/N Ratio : 42.632



S/N Ratio : 591.041



S/N Ratio : 182.332

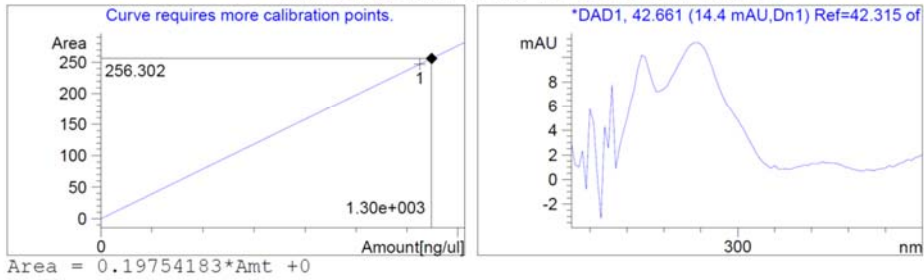


報告編號 : MZ2-231000004

附件 9 : 指標成分 Total anthocyanins (as C3G)之準確度及精密度原始圖譜 (續)

***** HPLC Report *****

Acq. Operator : Paul
 Report Name : Bilberry Dry Extract HRS
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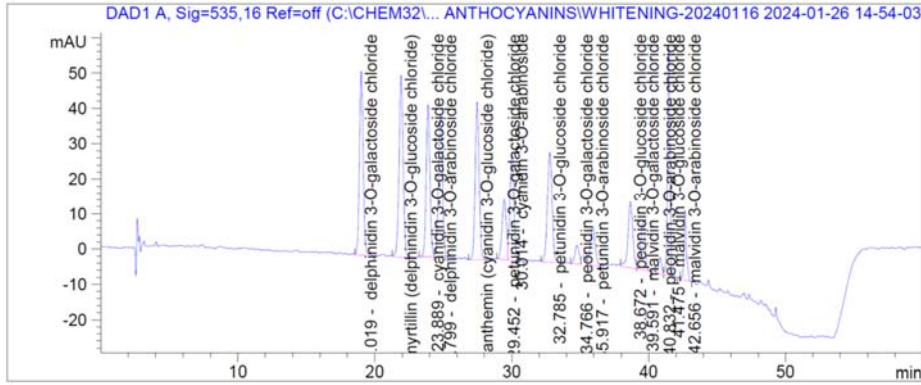
報告編號：MZ2-231000004

附件 9：指標成分 Total anthocyanins (as C3G)之準確度及精密度原始圖譜 (續)

***** HPLC Report *****

Acq. Operator : Paul
 Report Name : Bilberry Dry Extract HRS
 Report Type : PDF
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Instrument : HPLC-DAD (Agilent 1200 Series)
 Column : GL Sciences Inc. Inertsil ODS-2, 5 um, 4.6 x 250 mm
 Injection Time : 1/26/2024 9:05:45 PM
 Vial Location : Vial 82
 Injection Volume : 10 uL
 Analysis Method : C:\CHEM32\1\METHODS\TOTAL ANTHOCYANINS-EP-Q.M
 Acquisition method : C:\Chem32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-20240116 2024-01-26 14-54-03\TOTAL ANTHOCYANINS-EP->



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Compound Name	Meas. R	Peak	Area	Area %
delphinidin 3-O	19.019	VB	1004.17	11.502

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
myrtillin (delp	21.924	VV	1086.08	12.441

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
cyanidin 3-O-ga	23.889	BV	828.17	9.486

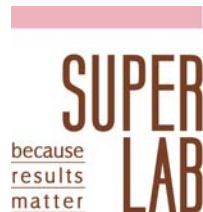
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Compound Name	Meas. R	Peak	Area	Area %
delphinidin 3-O	24.799	VB	835.81	9.574

DAD1 A, Sig=535,16 Ref=off



報告編號 : MZ2-231000004



附件 9 : 指標成分 Total anthocyanins (as C3G)之準確度及精密度原始圖譜 (續)

```

***** HPLC Report *****
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Report Type       : PDF
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                   20240116 2024-01-26 14-54-03\082-0701.D
-----
Compound Name     Meas. R  Peak    Area    Area %
-----
chrysanthemini ( 27.475  BB     910.30   10.427
-----
DAD1 A, Sig=535,16 Ref=off
-----
Compound Name     Meas. R  Peak    Area    Area %
-----
petunidin 3-O-g  29.452  BV     368.15    4.217
-----
DAD1 A, Sig=535,16 Ref=off
-----
Compound Name     Meas. R  Peak    Area    Area %
-----
cyanidin 3-O-ar   30.014  VB     632.19    7.241
-----
DAD1 A, Sig=535,16 Ref=off
-----
Compound Name     Meas. R  Peak    Area    Area %
-----
petunidin 3-O-g  32.785  VB     750.24    8.594
-----
DAD1 A, Sig=535,16 Ref=off
-----
Compound Name     Meas. R  Peak    Area    Area %
-----
peonidin 3-O-ga   34.766  BV     117.29    1.344
-----
DAD1 A, Sig=535,16 Ref=off
-----
Compound Name     Meas. R  Peak    Area    Area %
-----
petunidin 3-O-a   35.917  VV     274.51    3.144
-----
DAD1 A, Sig=535,16 Ref=off
-----
Compound Name     Meas. R  Peak    Area    Area %
-----
peonidin 3-O-gl   38.672  VV     454.66    5.208
-----
DAD1 A, Sig=535,16 Ref=off
-----
Compound Name     Meas. R  Peak    Area    Area %
-----
malvidin 3-O-ga   39.591  VB     322.37    3.693
-----
DAD1 A, Sig=535,16 Ref=off

```

附件 9 : 指標成分 Total anthocyanins (as C3G)之準確度及精密度原始圖譜 (續)

***** HPLC Report *****

Acq. Operator : Paul
Report Name : Bilberry Dry Extract HRS
Report Type : PDF
Report Creation : 1/31/2024 1:23:39 PM
Raw Data File Name : C:\CHEM32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-20240116 2024-01-26 14-54-03\082-0701.D

Compound Name	Meas. R	Peak	Area	Area %
peonidin 3-O-ar	40.832	VV	70.36	0.806

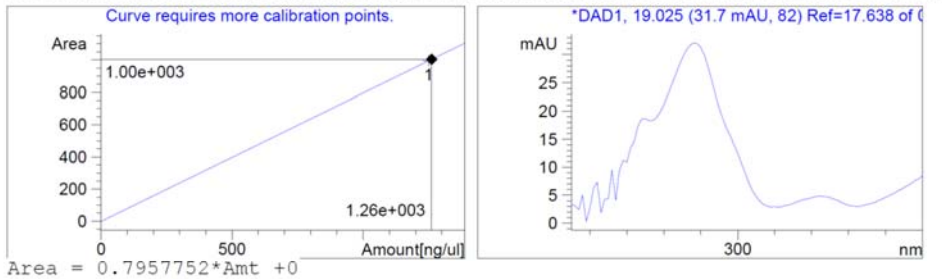
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Compound Name	Meas. R	Peak	Area	Area %
malvidin 3-O-gl	41.475	VB	824.36	9.443

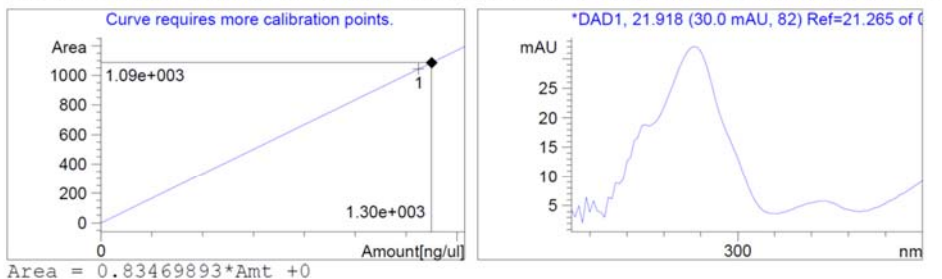
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Compound Name	Meas. R	Peak	Area	Area %
malvidin 3-O-ar	42.656	VB	251.49	2.881

S/N Ratio : 818.224



S/N Ratio : 809.577



S/N Ratio : 676.853

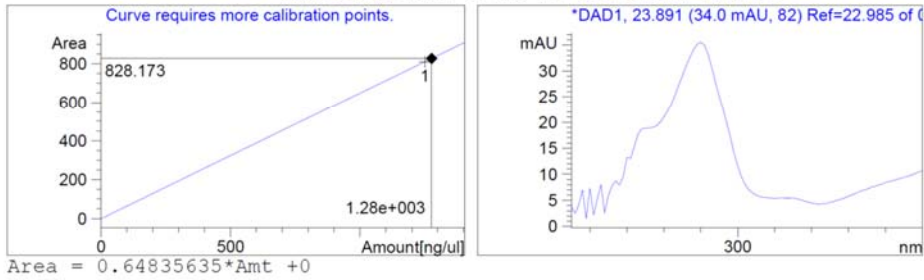


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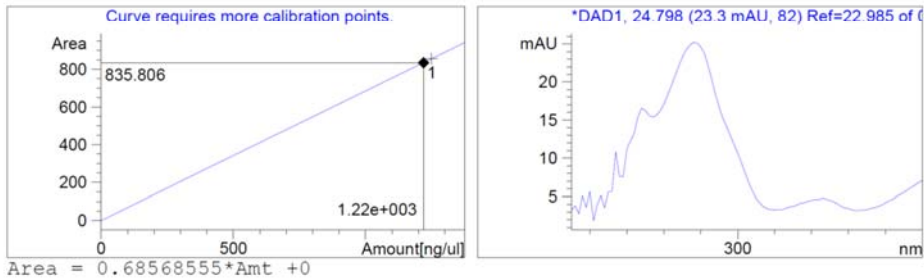
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***** HPLC Report *****

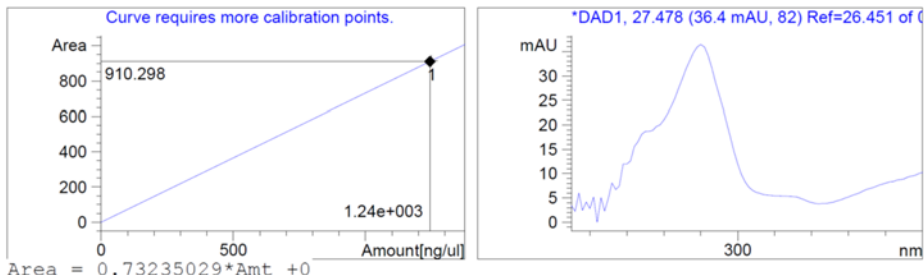
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S/N Ratio : 630.318



S/N Ratio : 702.790



S/N Ratio : 265.841

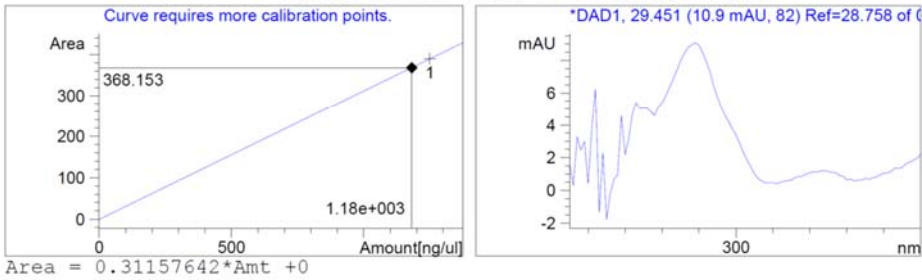


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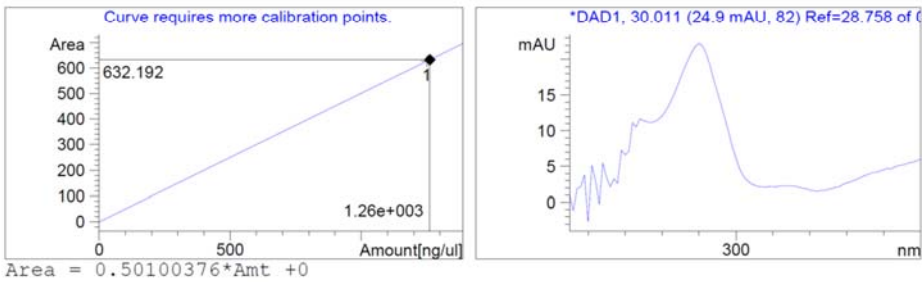
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***** HPLC Report *****

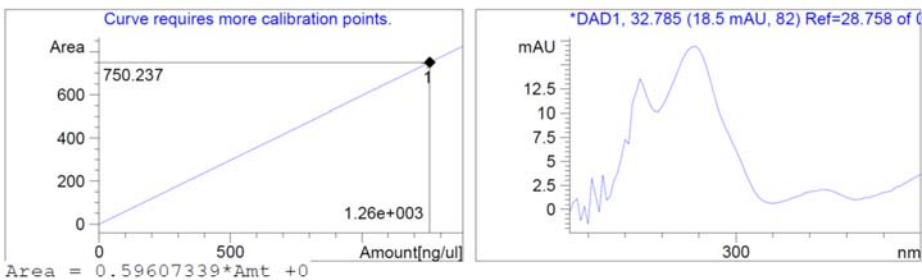
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S/N Ratio : 470.963



S/N Ratio : 489.722



S/N Ratio : 82.504

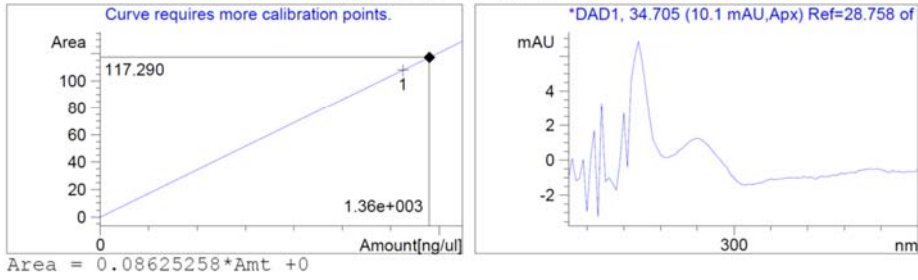


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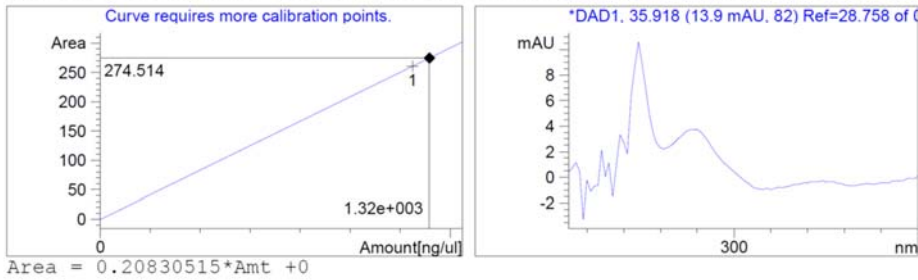
附件 9 : 指標成分 Total anthocyanins (as C3G)之準確度及精密度原始圖譜 (續)

***** HPLC Report *****

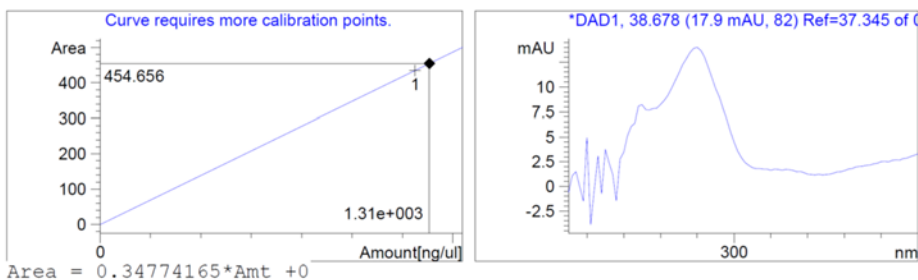
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S/N Ratio : 172.154



S/N Ratio : 292.593



S/N Ratio : 219.514

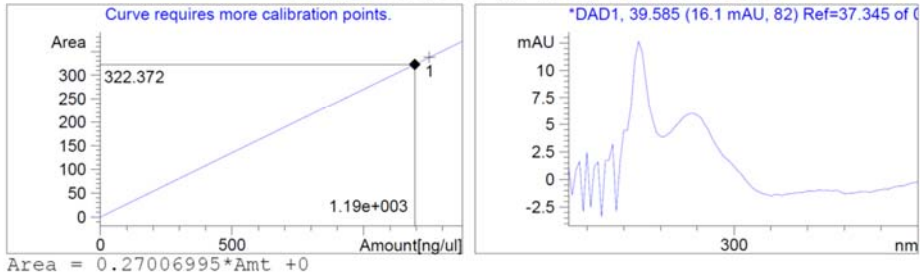


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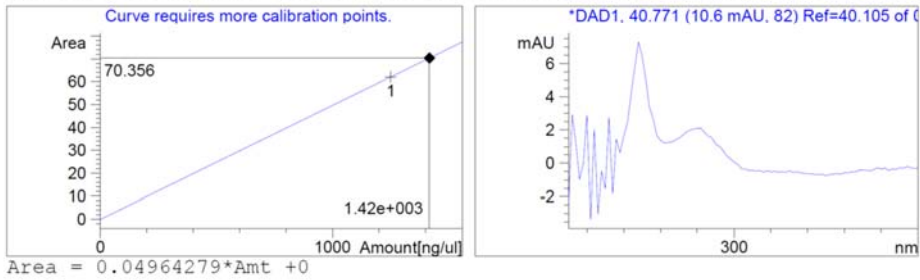
附件 9 : 指標成分 Total anthocyanins (as C3G)之準確度及精密度原始圖譜 (續)

***** HPLC Report *****

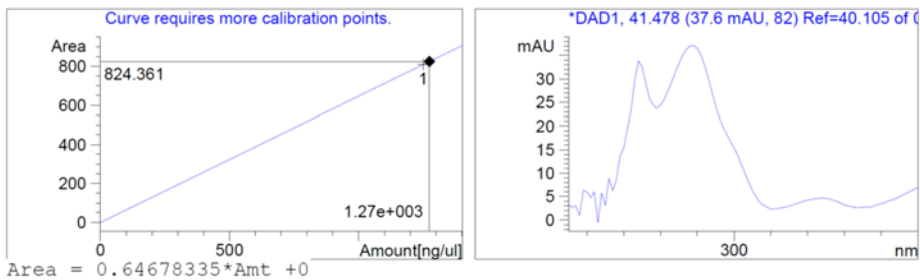
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S/N Ratio : 72.463



S/N Ratio : 1017.251



S/N Ratio : 308.909

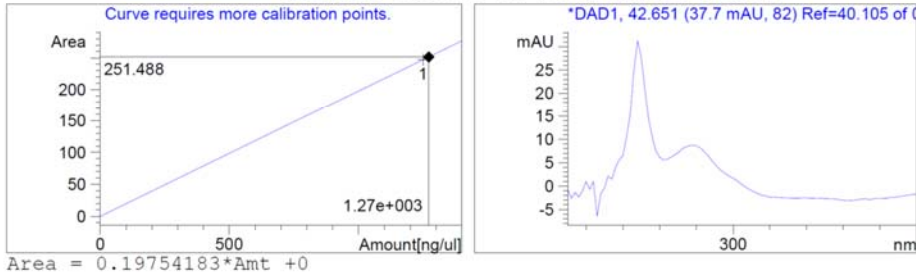


報告編號：MZ2-231000004

附件 9：指標成分 Total anthocyanins (as C3G)之準確度及精密度原始圖譜 (續)

***** HPLC Report *****

Acq. Operator : Paul
 Report Name : Bilberry Dry Extract HRS
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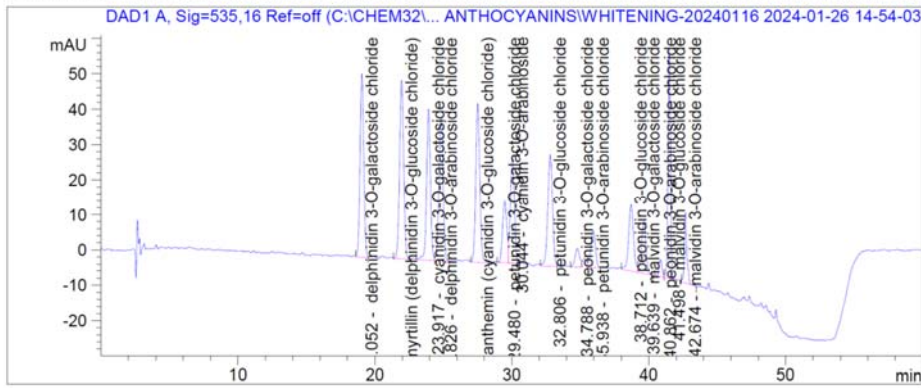
報告編號：MZ2-231000004

附件 9：指標成分 Total anthocyanins (as C3G)之準確度及精密度原始圖譜 (續)

***** HPLC Report *****

Acq. Operator : Paul
 Report Name : Bilberry Dry Extract HRS
 Report Type : PDF
 Report Creation : 1/31/2024 1:23:59 PM
 Raw Data File Name : C:\CHEM32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-20240116 2024-01-26 14-54-03\082-0801.D

Instrument : HPLC-DAD (Agilent 1200 Series)
 Column : GL Sciences Inc. Inertsil ODS-2, 5 um, 4.6 x 250 mm
 Injection Time : 1/26/2024 10:07:39 PM
 Vial Location : Vial 82
 Injection Volume : 10 uL
 Analysis Method : C:\CHEM32\1\METHODS\TOTAL ANTHOCYANINS-EP-Q.M
 Acquisition method : C:\Chem32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-20240116 2024-01-26 14-54-03\TOTAL ANTHOCYANINS-EP->



DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
delphinidin 3-O	19.052	VV	986.21	11.240

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
myrtillin (delp	21.954	BV	1065.49	12.144

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
cyanidin 3-O-ga	23.917	VV	844.61	9.626

DAD1 A, Sig=535,16 Ref=off

Compound Name	Meas. R	Peak	Area	Area %
delphinidin 3-O	24.826	VB	857.50	9.773

DAD1 A, Sig=535,16 Ref=off



附件 9 : 指標成分 Total anthocyanins (as C3G)之準確度及精密度原始圖譜 (續)

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***** HPLC Report *****
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Acq. Operator      : Paul
Report Name       : Bilberry Dry Extract HRS
Report Type       : PDF
Report Creation   : 1/31/2024 1:23:59 PM
Raw Data File Name : C:\CHEM32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-
                   20240116 2024-01-26 14-54-03\082-0801.D
-----
Compound Name     Meas. R  Peak    Area    Area %
-----
chrysanthemins ( 27.511  BV      931.23   10.614
-----
DAD1 A, Sig=535,16 Ref=off
-----
Compound Name     Meas. R  Peak    Area    Area %
-----
petunidin 3-O-g  29.480  BV      372.14    4.242
-----
DAD1 A, Sig=535,16 Ref=off
-----
Compound Name     Meas. R  Peak    Area    Area %
-----
cyanidin 3-O-ar  30.044  VB      620.01    7.067
-----
DAD1 A, Sig=535,16 Ref=off
-----
Compound Name     Meas. R  Peak    Area    Area %
-----
petunidin 3-O-g  32.806  VV      767.47    8.747
-----
DAD1 A, Sig=535,16 Ref=off
-----
Compound Name     Meas. R  Peak    Area    Area %
-----
peonidin 3-O-ga  34.788  BV      127.43    1.452
-----
DAD1 A, Sig=535,16 Ref=off
-----
Compound Name     Meas. R  Peak    Area    Area %
-----
petunidin 3-O-a  35.938  VB      248.23    2.829
-----
DAD1 A, Sig=535,16 Ref=off
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Compound Name     Meas. R  Peak    Area    Area %
-----
peonidin 3-O-gl  38.712  VV      467.97    5.334
-----
DAD1 A, Sig=535,16 Ref=off
-----
Compound Name     Meas. R  Peak    Area    Area %
-----
malvidin 3-O-ga  39.639  VB      342.54    3.904
-----
DAD1 A, Sig=535,16 Ref=off

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附件 9 : 指標成分 Total anthocyanins (as C3G)之準確度及精密度原始圖譜 (續)

***** HPLC Report *****

Acq. Operator : Paul
Report Name : Bilberry Dry Extract HRS
Report Type : PDF
Report Creation : 1/31/2024 1:23:59 PM
Raw Data File Name : C:\CHEM32\1\DATA\TOTAL ANTHOCYANINS\WHITENING-20240116 2024-01-26 14-54-03\082-0801.D

Compound Name	Meas. R	Peak	Area	Area %
peonidin 3-O-ar	40.862	BV	69.61	0.793

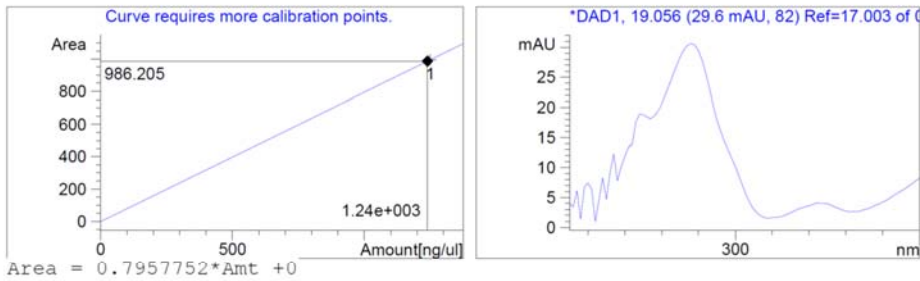
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Compound Name	Meas. R	Peak	Area	Area %
malvidin 3-O-gl	41.498	VB	810.07	9.233

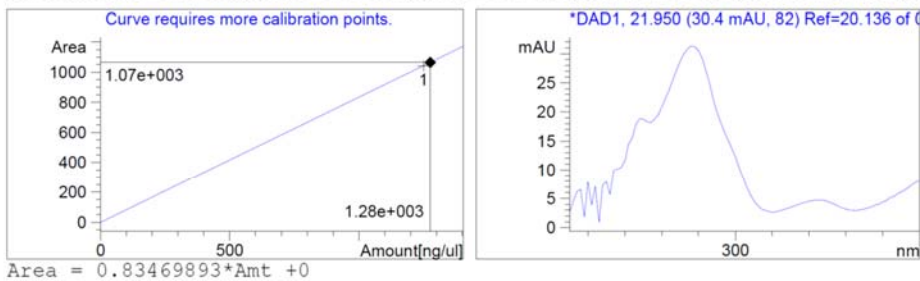
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Compound Name	Meas. R	Peak	Area	Area %
malvidin 3-O-ar	42.674	VB	263.35	3.002

S/N Ratio : 765.733



S/N Ratio : 746.666

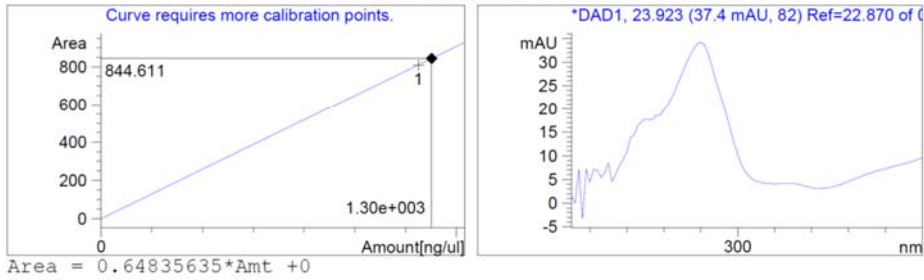


S/N Ratio : 631.086

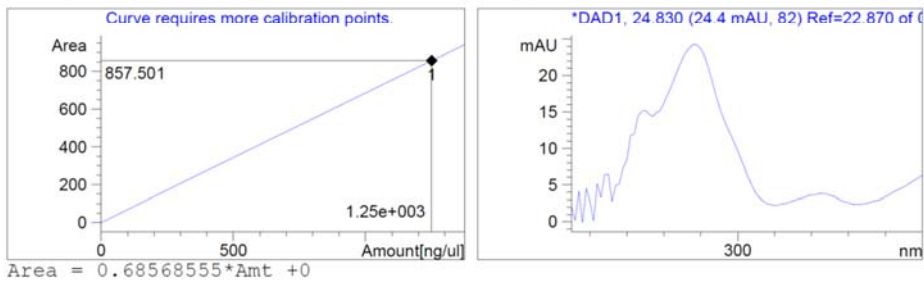
附件 9 : 指標成分 Total anthocyanins (as C3G)之準確度及精密度原始圖譜 (續)

***** HPLC Report *****

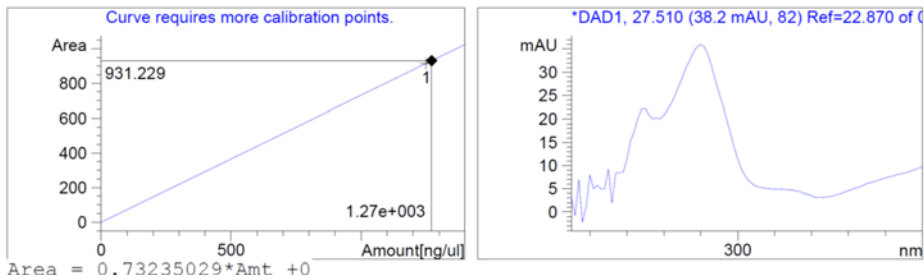
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20240116 2024-01-26 14-54-03\082-0801.D



S/N Ratio : 593.795



S/N Ratio : 662.235



S/N Ratio : 255.037

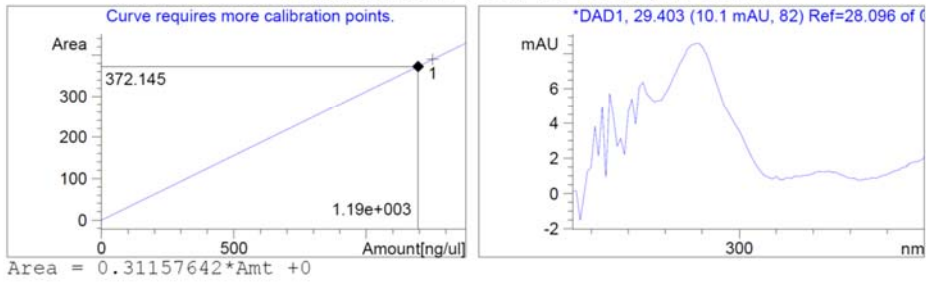


報告編號 : MZ2-231000004

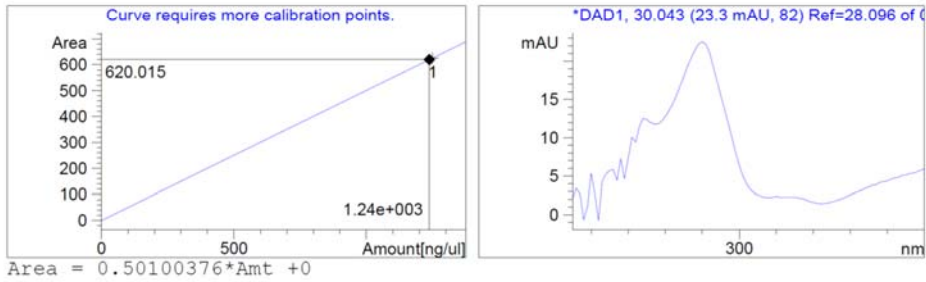
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***** HPLC Report *****

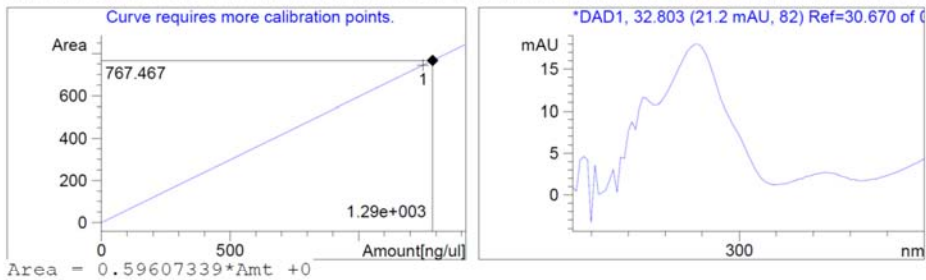
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S/N Ratio : 439.652



S/N Ratio : 465.418



S/N Ratio : 77.142

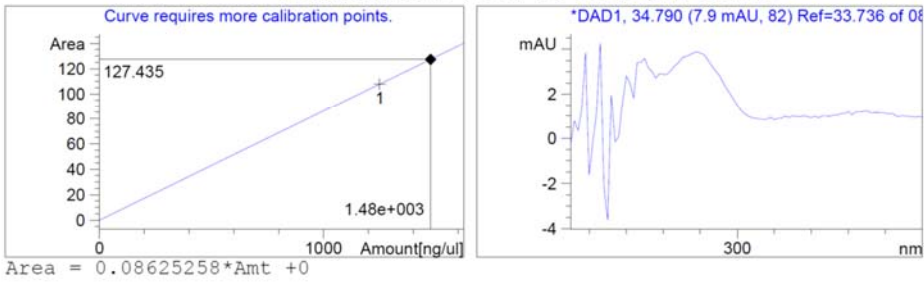


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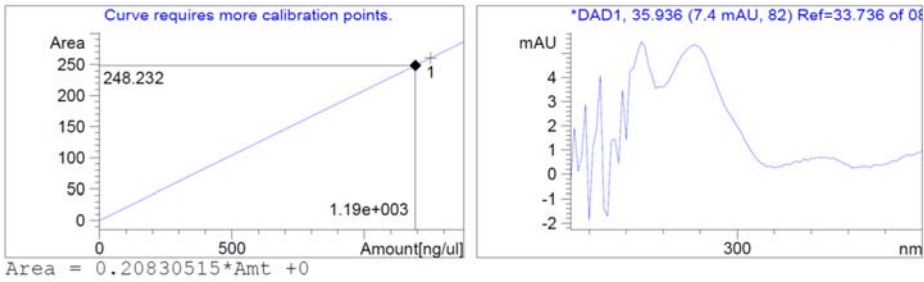
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***** HPLC Report *****

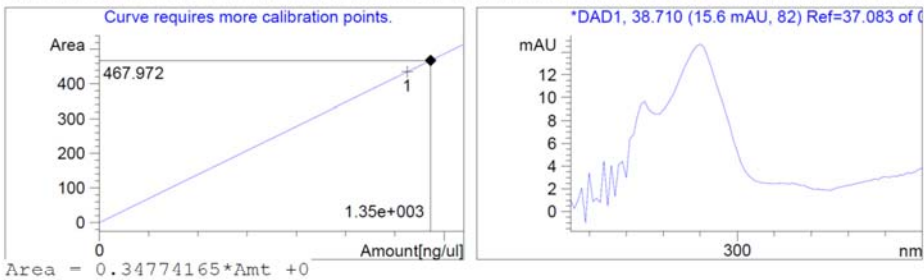
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S/N Ratio : 151.340



S/N Ratio : 276.730



S/N Ratio : 215.820

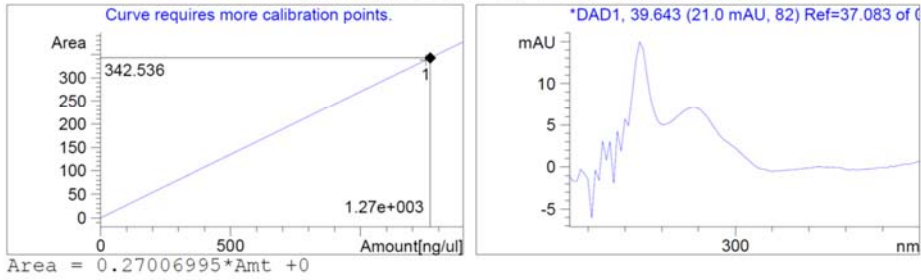


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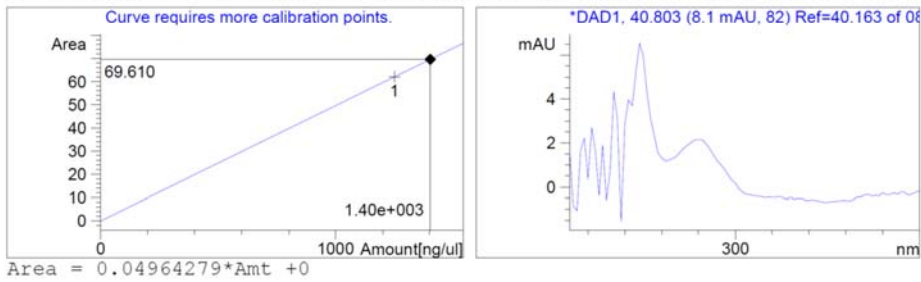
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***** HPLC Report *****

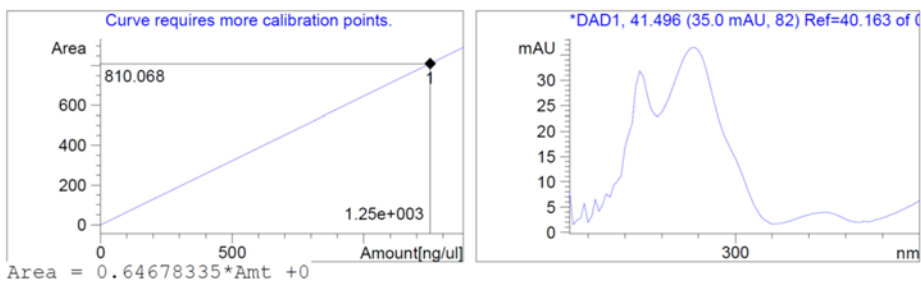
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S/N Ratio : 69.955



S/N Ratio : 951.268



S/N Ratio : 293.880



報告編號 : MZ2-231000004

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