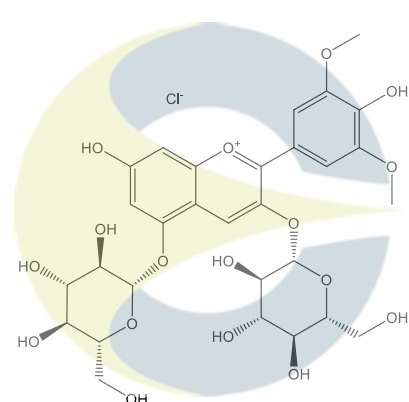


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PRODUCT NAME	Malvidin-3,5-Diglucoside Chloride	<div style="text-align: center;"> Structure  </div>
PART NUMBER	00013076	
STANDARD TYPE	Analytical Standard (AS)	
LOT NUMBER	00013076-007	
REPORT NUMBER	CDXA-RSS-7963-01	
SAMPLE NUMBER	CDXP-18-00265	
DATE OF SAMPLE	04/19/2018	
DATE OF RE-EVALUATION	03/10/2022	
DATE OF REPORT	04/04/2022	

CHEMICAL NAMES	3,5-Bis(β-D-glucopyranosyloxy)-7-hydroxy-2-(4-hydroxy-3,5-dimethoxyphenyl)- 1-benzopyrylium chloride; Malvin chloride; Malvoside
CHEMICAL FORMULA	C ₂₉ H ₃₅ O ₁₇ · Cl
MOLECULAR WEIGHT (MW)	691.03
CHEMICAL FAMILY	Anthocyanins
CAS NUMBER	[16727-30-3]
EC#(EINECS)	240-785-9
RTECS	NA

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
HPLC	0.700.10.2.METH22	≥ 75%	98.2%
Mass Spectrum	99.1-04-3.0-000126	Conforms	Conforms
Appearance	NA	NA	Dark powder

STORAGE CONDITIONS

STORAGE	-20 °C in a dry place.
EXPIRATION DATE	03/2027 under the above conditions.

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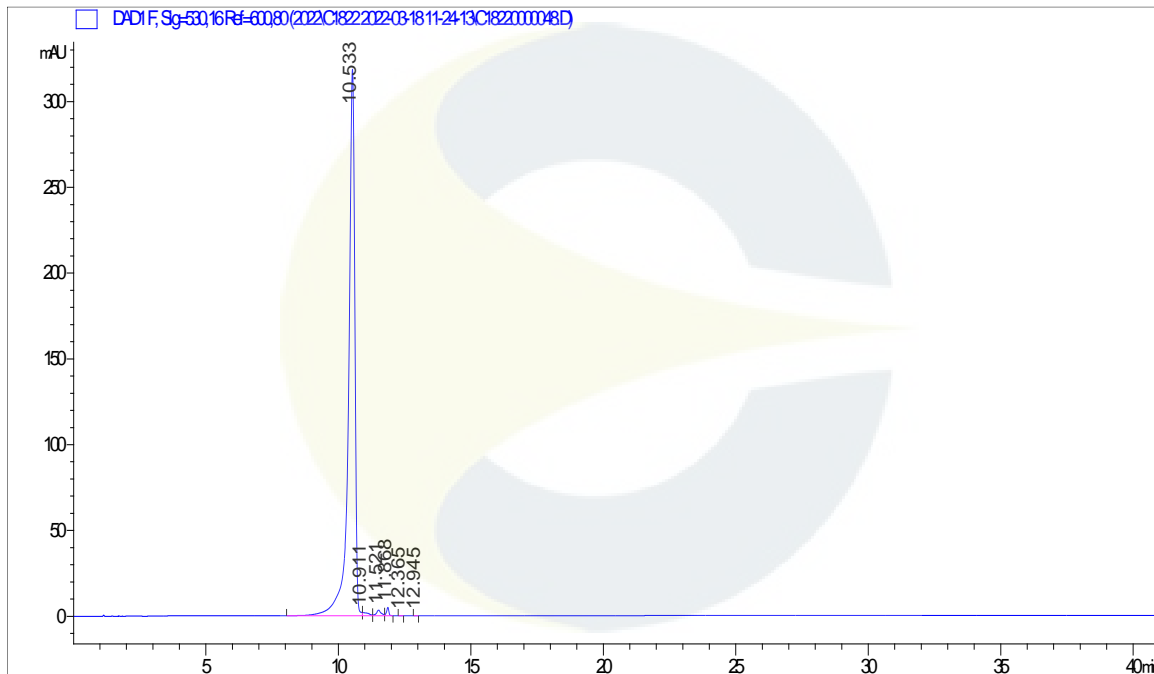
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ANALYTICAL CONDITIONS

INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD); AB-SCEIX 6600 TRIPLE TOF
COLUMN	Phenomenex Luna C18(2) 150 x 2.00 mm, 5 µm particle size
MOBILE PHASE	A - 0.1% Trifluoroacetic acid in Ultrapure water, B - Acetonitrile; Isocratic 5% B for 5 minutes, then increasing to 95% B over 20 minutes. Hold at 95% B for 15 minutes.
COLUMN TEMP.	60 °C
FLOW RATE	0.4 mL/minute
INJECTION VOL.	20. µL
INJECTION CONC.	1.0 mg/mL in Dimethyl Sulfoxide
DETECTION	530 ± 8 nm

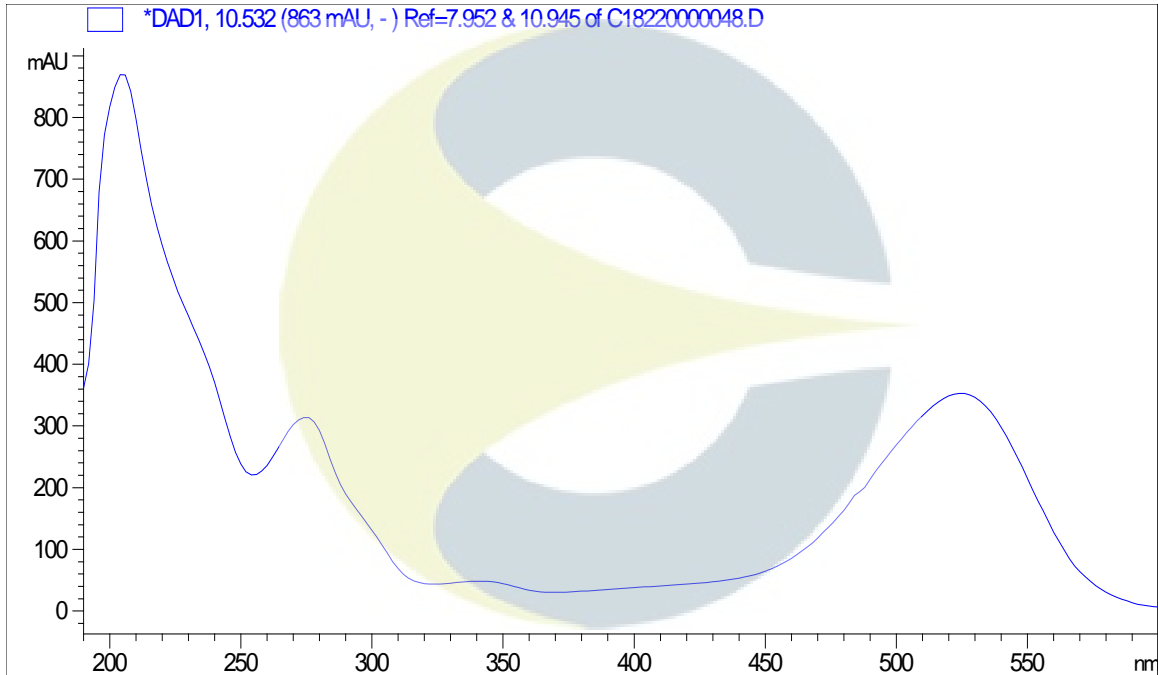
HPLC CHROMATOGRAM OF MALVIDIN-3,5-DIGLUCOSIDE CHLORIDE (CDXP-18-00265)



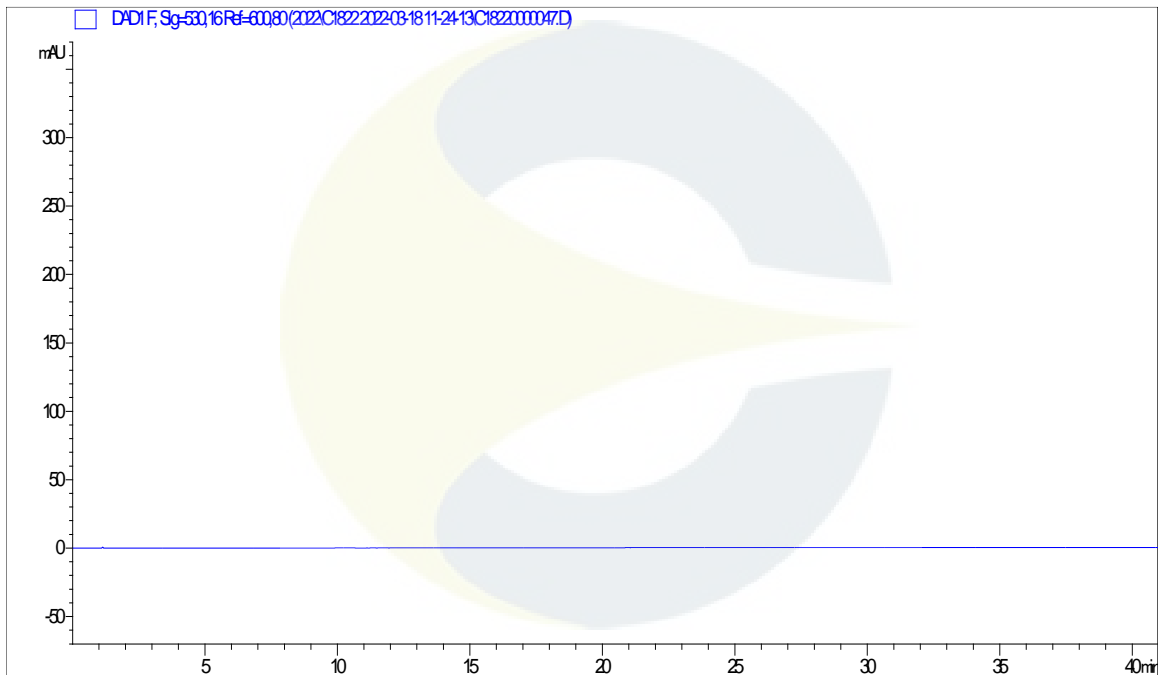
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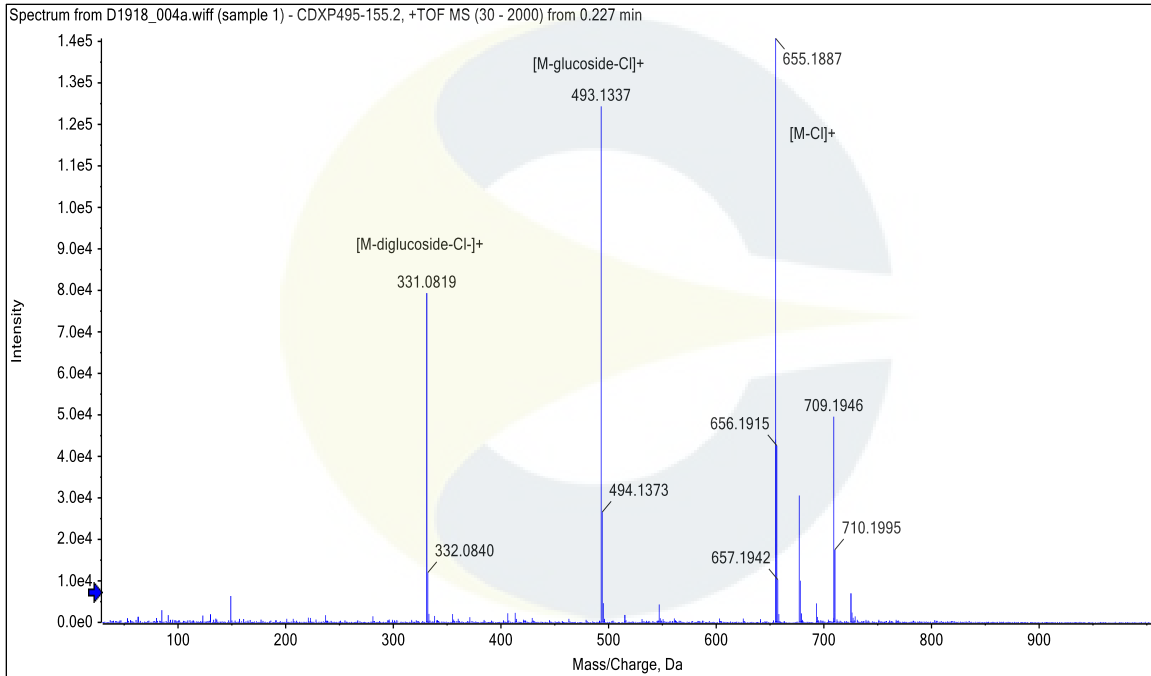
UV SPECTRUM AT RT = 10.5 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK



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MASS SPECTRUM OF MALVIDIN-3,5-DIGLUCOSIDE CHLORIDE (CDXP-18-00265)

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	05/04/2018	New report
01	04/04/2022	Passed re-evaluation by HPLC. Updated expiration date, analytical conditions, chromatograms and results.

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