MZ Biolabs
2102 N Country Club Rd
Tucson, AZ 85716
contact@mzbiolabs.com
www.mzbiolabs.com

Certificate of Analysis

4-DMA-DHF (Eutropoflavin)

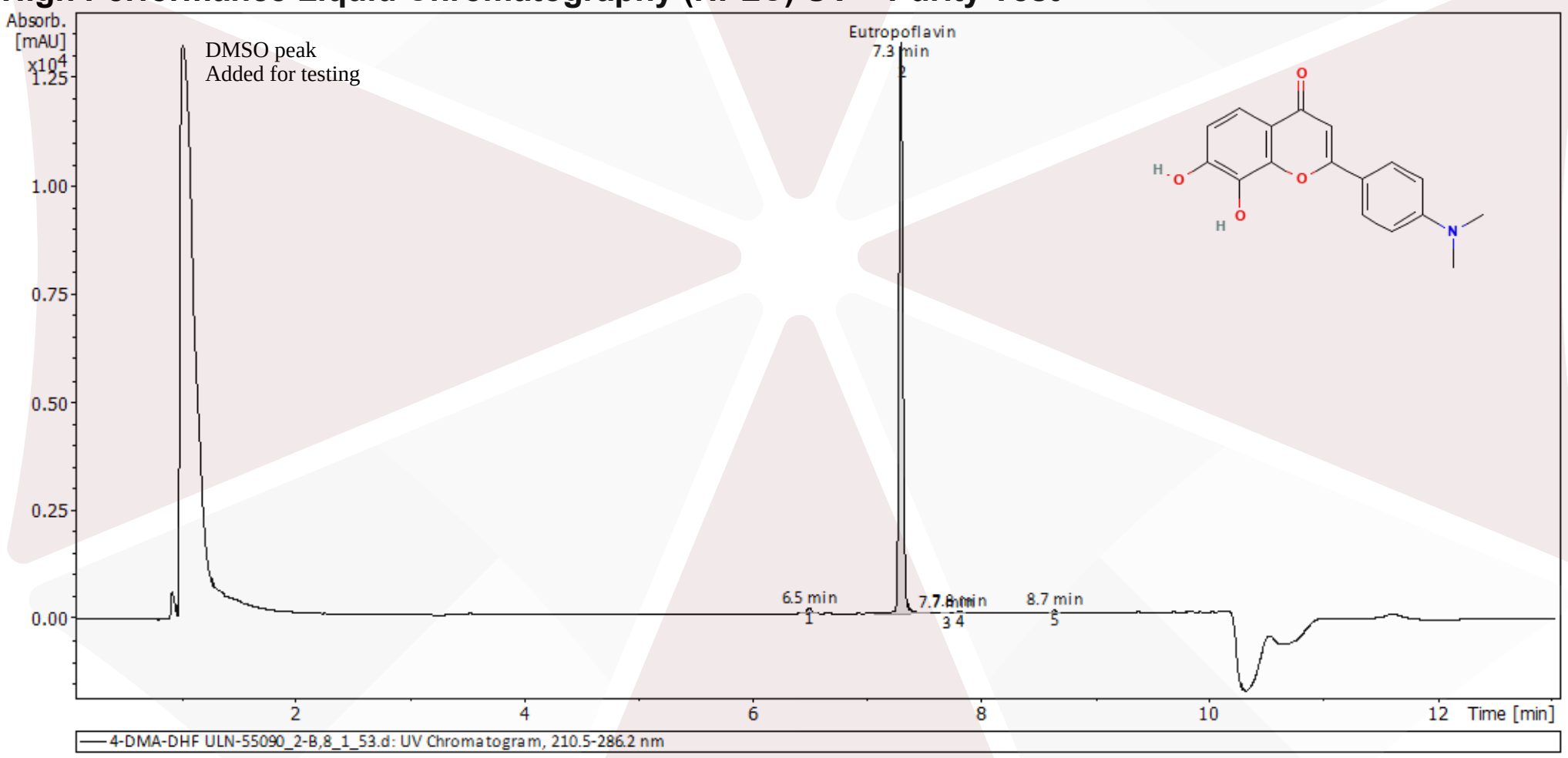
2-[4-(dimethylamino)phenyl]-7,8-dihydroxychromen-4-one

Compound : **4-DMA-DHF**
Lot number : **ULN-55090**
Analysis Date : **2025-08-25**
Purity % : **98.00%**
Method : **HPLC-UV-MS**

Client : **UMBRELLA.us**
3280 E Hemisphere Loop
Tucson, Arizona 85706

PubChem CID: 44610701
https://pubchem.ncbi.nlm.nih.gov/compound/44610701

High Performance Liquid Chromatography (HPLC) UV – Purity Test



PEAK LIST — Number of detected peaks: 5

	Time (min)	Area	%Area	
1	6.50	3.48E+02	1.07	
2	**7.30**	**3.18E+04**	**98.00**	**4-DMA-DHF**
3	7.70	5.11E+01	0.16	
4	7.80	1.21E+02	0.37	
5	8.70	1.63E+02	0.50	

Analysis Performed by
Ken Pendarvis, ChE
Analytical Chemist
MZ Biolabs
contact@mzbiolabs.com

2025-08-28

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Mass Spectrometry (MS) – Identity Test

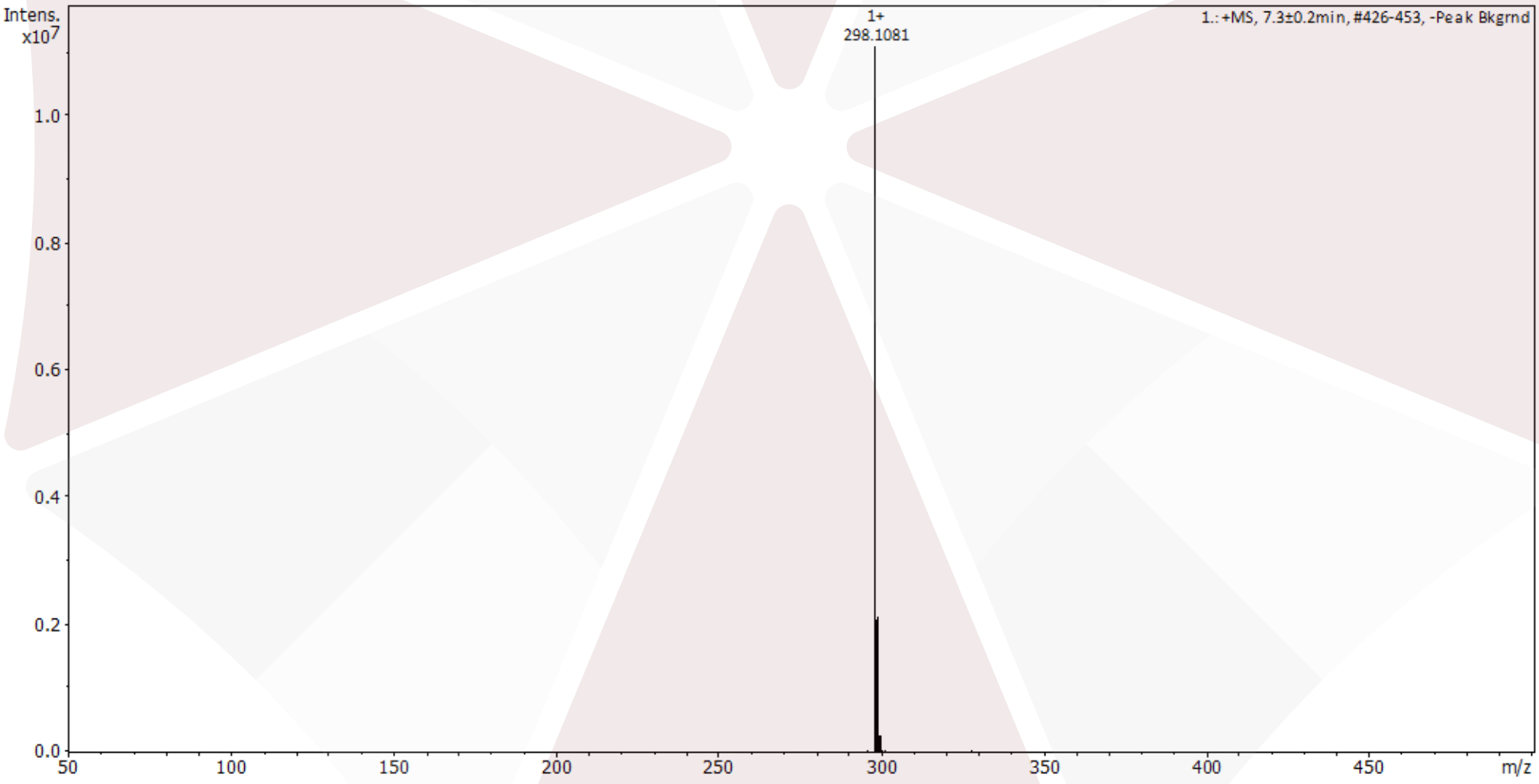
Identity confirmed using HPLC-MS
Molecular weight calculated using monoisotopic m/z values from mass spectrum

Expected monoisotopic mass :	297.10	Da
Measured monoisotopic mass :	297.11	Da

Molecular weight confirmed

Note : Monoisotopic m/z values are not easily seen in full spectrum view for larger molecules and peptides.
The dominant isotopic peak (base peak) shown in the spectrum below can be used to approximate the average molecular weight frequently reported by vendors and databases as a secondary means of confirmation.

Recorded MS spectrum



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