



SPECIMEN

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PRODUCT NAME	Formononetin	Structure	
PART NUMBER	00006192		
STANDARD TYPE	Primary (P)		
LOT NUMBER	00006192-502		
REPORT NUMBER	CDXA-RSS-5601-03		
SAMPLE NUMBER	CDXA-13-3739		
DATE OF SAMPLE	05/30/2013	HO' O'	
DATE OF RE-EVALUATION	08/22/2017 (1st); 08/19/2021 (2nd)		
DATE OF REPORT	09/09/2021		
CHEMICAL NAMES	7-Hydroxy-3-(4-methoxyphenyl)-4H-1-b	enzopyran-4-one; Flavosil; Formonentin;	
CHEMICAL FORMULA	C ₁₆ H ₁₂ O ₄		
MOLECULAR WEIGHT (MW)	268.26		
CHEMICAL FAMILY	Isoflavones		
CAS NUMBER	[485-72-3]		
EC#(EINECS)	207-623-9		
RTECS	DJ3100114		

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT	
Adjusted Purity	NA	≥ 85%	99.4%	
HPLC	0.700.10.2.METH22	≥ 90%	99.6%	
NMR	99.1-CD-1.0-000122	Conforms to structure	Conforms to structure	
Mass Spectrum	Direct Infusion, ESI (-)	Conforms	Conforms	
Residual Solvent	99.1-CD-6.0-000115	NA	DMF – 0.2%	
Water	Water 0.700.12.37		ND	
Appearance NA		NA	White powder	

ADJUSTED PURITY: 99.4% IS BASED ON (100 - 0.2 SOLVENTS - 0.0 WATER) X 99.6% HPLC

STORAGE CONDITIONS

STORAGE

Room Temperature in a dry place.

EXPIRATION DATE 08/2026 under the above conditions.

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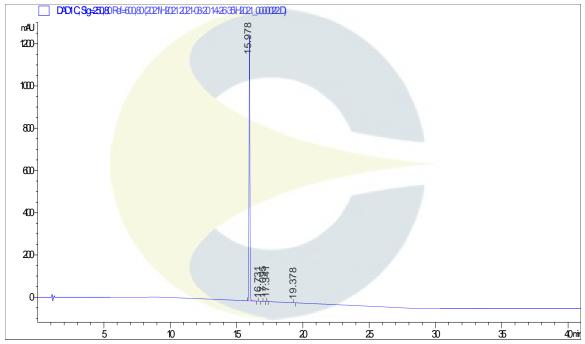
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ΔΝΔΙΥΤΙΟΔΙ	CONDITIONS
ANALIIICAL	CONDITIONS

INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD); AGILENT 6510 QTOF	
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;	
	lsocratic 5% B for 5 minutes, then increasing to 95% B over 20 minutes. Hold at 95% B for 15 minutes, then decreasing to 5% B for 1 minute.	
COLUMN TEMP.	60 °C	
FLOW RATE	0.4 mL/minute	
INJECTION VOL.	0.4 μL	
INJECTION CONC.	1.3 mg/mL in Methanol	
DETECTION	250 ± 40 nm	

HPLC CHROMATOGRAM OF FORMONONETIN (CDXA-13-3739)



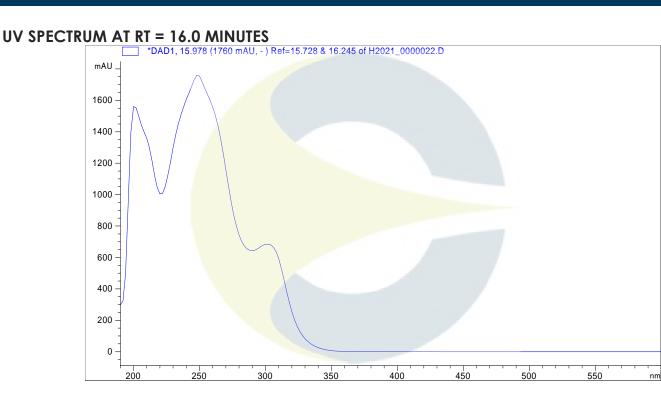




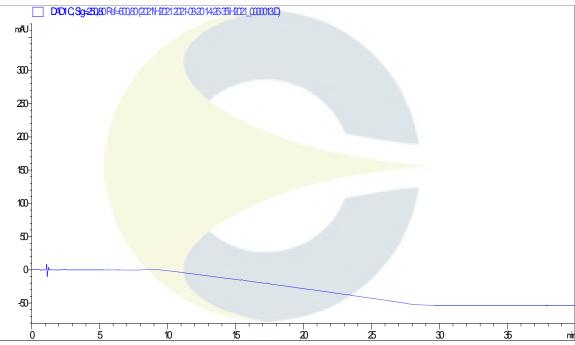
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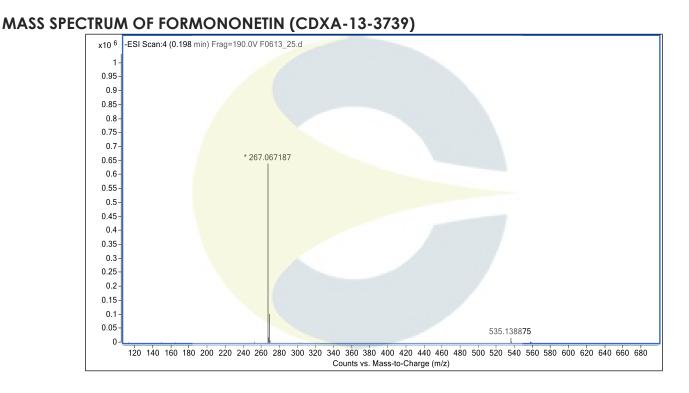




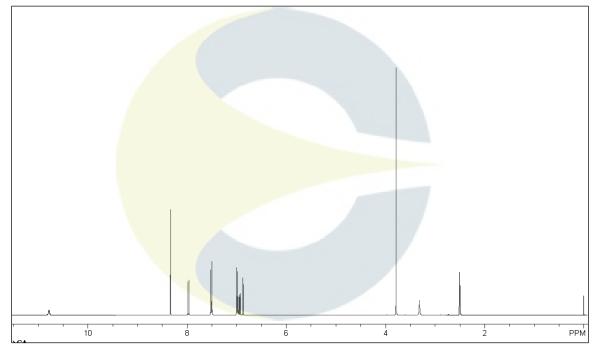
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¹H-NMR SPECTRUM OF FORMONONETIN (CDXA-13-3739) IN DMSO-d₆





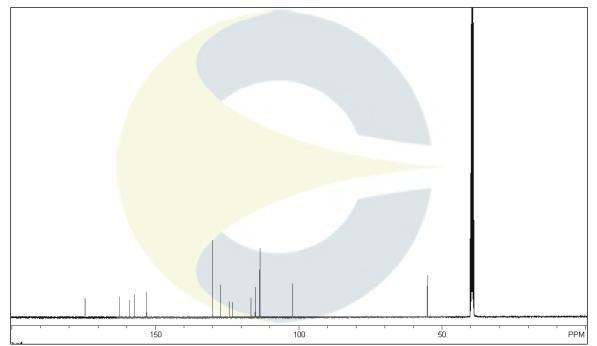


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¹³C-NMR SPECTRUM OF FORMONONETIN (CDXA-13-3739) IN DMSO-d₆



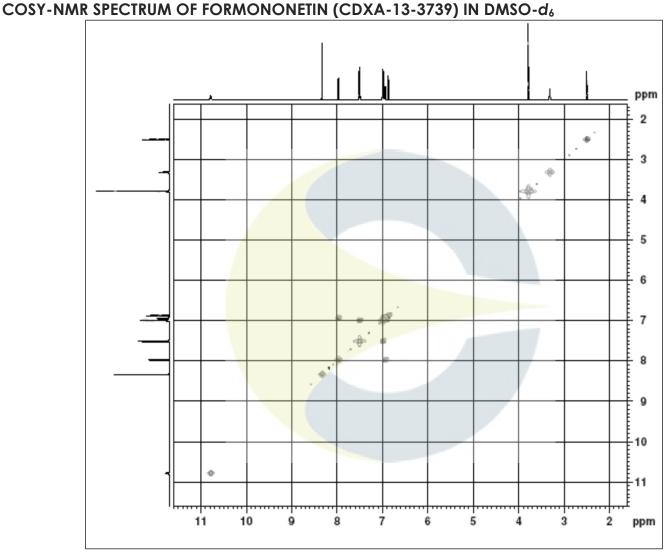




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REVISION HISTORY

<u>Revision History</u>	Date of Revision	Document/Changes
00	06/12/2013	New report
01	10/08/2013	Updated product description
02	08/30/2017	Passed re-evaluation by HPLC, KF. Updated expiration date, chemical names, analytical conditions, chromatograms and results. Added RTECS number and removed melting point.
03	09/09/2021	Passed second re-evaluation by HPLC, KF, Updated expiration date, analytical conditions, chromatograms and results.

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