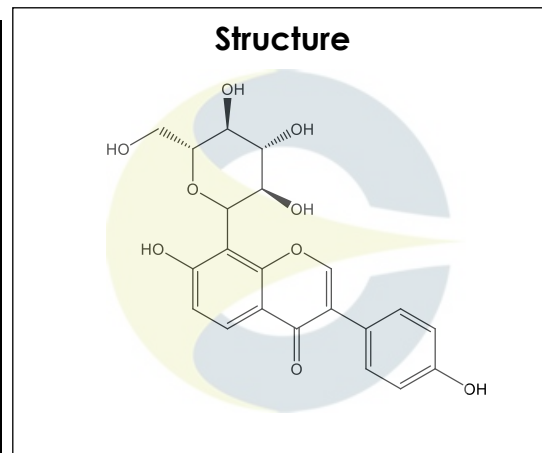


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PRODUCT NAME	Puerarin
PART NUMBER	00016385
STANDARD TYPE	Primary (P)
LOT NUMBER	00016385-PU1
REPORT NUMBER	CDXA-RSS-9141-00
SAMPLE NUMBER	CDXP-20-00639
DATE OF SAMPLE	08/31/2020
DATE OF REPORT	09/28/2020



CHEMICAL NAMES	8-β-D-Glucopyranosyl-7-hydroxy-3-(4-hydroxyphenyl)-4H-1-benzopyran-4-one; Kakonein
CHEMICAL FORMULA	C ₂₁ H ₂₀ O ₉
MOLECULAR WEIGHT (MW)	416.38
CHEMICAL FAMILY	Flavonoids
CAS NUMBER	[3681-99-0]
EC#(EINECS)	609-296-1
RTECS	UO5216000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	95.9%
HPLC	0.700.10.2.METH22	≥ 90%	99.7%
NMR	0.700.12.4	Conforms to structure	Conforms to structure
Mass Spectrum	0.700.12.27	Conforms	Conforms
Residual Solvent*	USP <467>	NA	ND
Water	0.700.12.37	NA	3.8%
Appearance	NA	NA	White powder

*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 95.9% IS BASED ON (100 - 0.0 SOLVENTS - 3.8 WATER) X 99.7% HPLC

STORAGE CONDITIONS

STORAGE	Room Temperature in a dry place.
EXPIRATION DATE	08/2025 under the above conditions.

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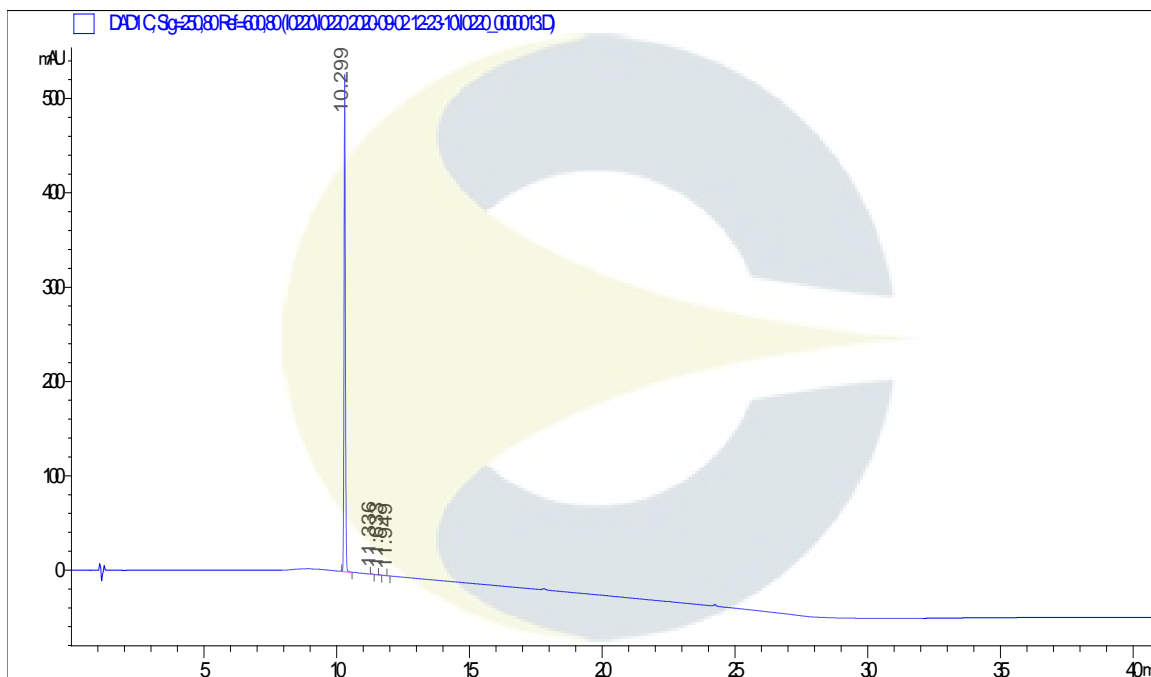
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ANALYTICAL CONDITIONS

INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD); AB-SCIEX 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, then decreasing to 5% B over 1 minute.
COLUMN TEMP.	60 °C
FLOW RATE	0.4 mL/minute
INJECTION VOL.	0.2 µL
INJECTION CONC.	1.4 mg/mL in Methanol
DETECTION	250 ± 40 nm

HPLC CHROMATOGRAM OF PUERARIN (CDXP-20-00639)



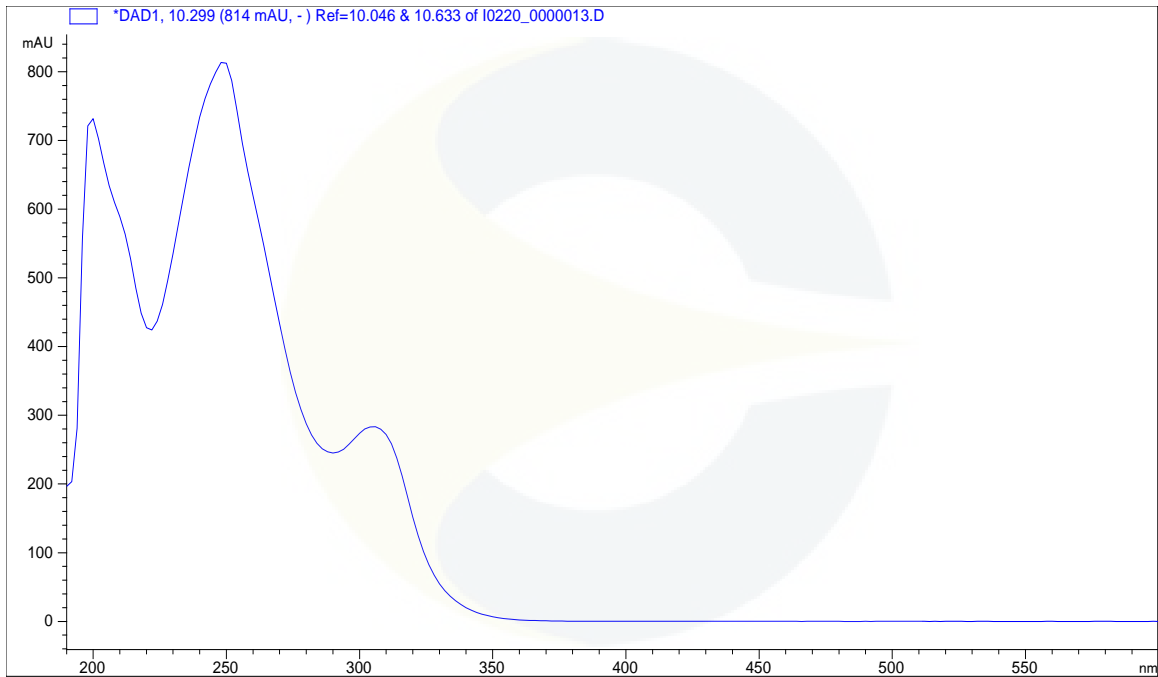
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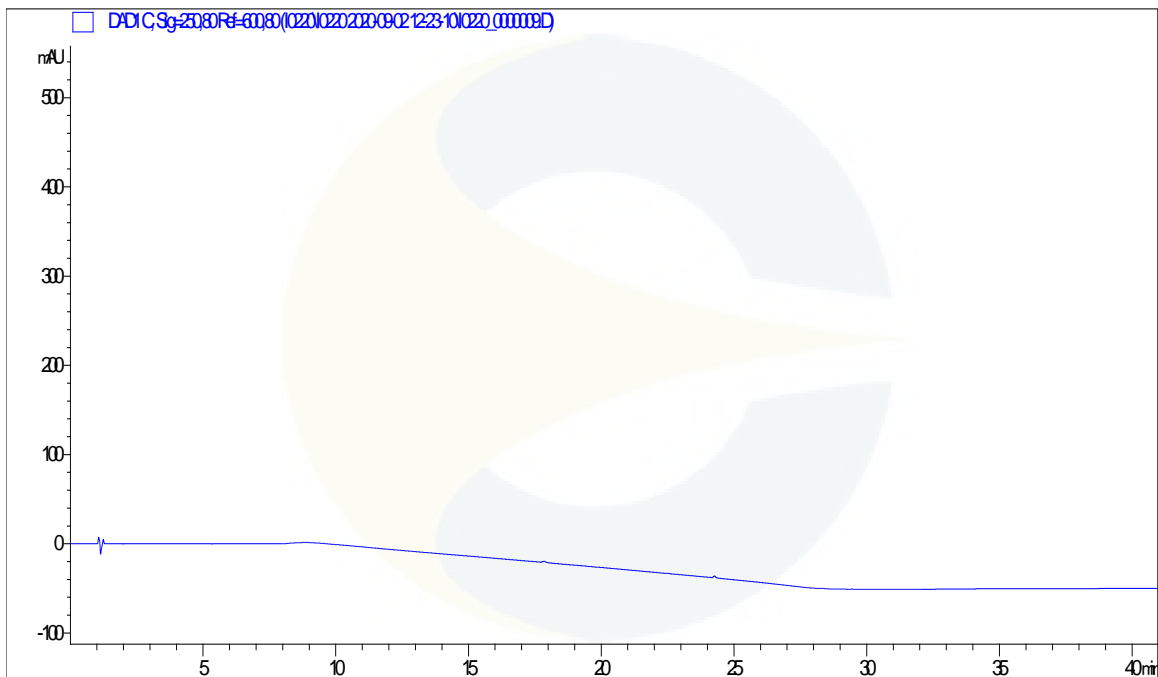
India Contact:
 Life Technologies (India) Pvt. Ltd.
 306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444
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UV SPECTRUM AT RT = 10.3 MINUTES



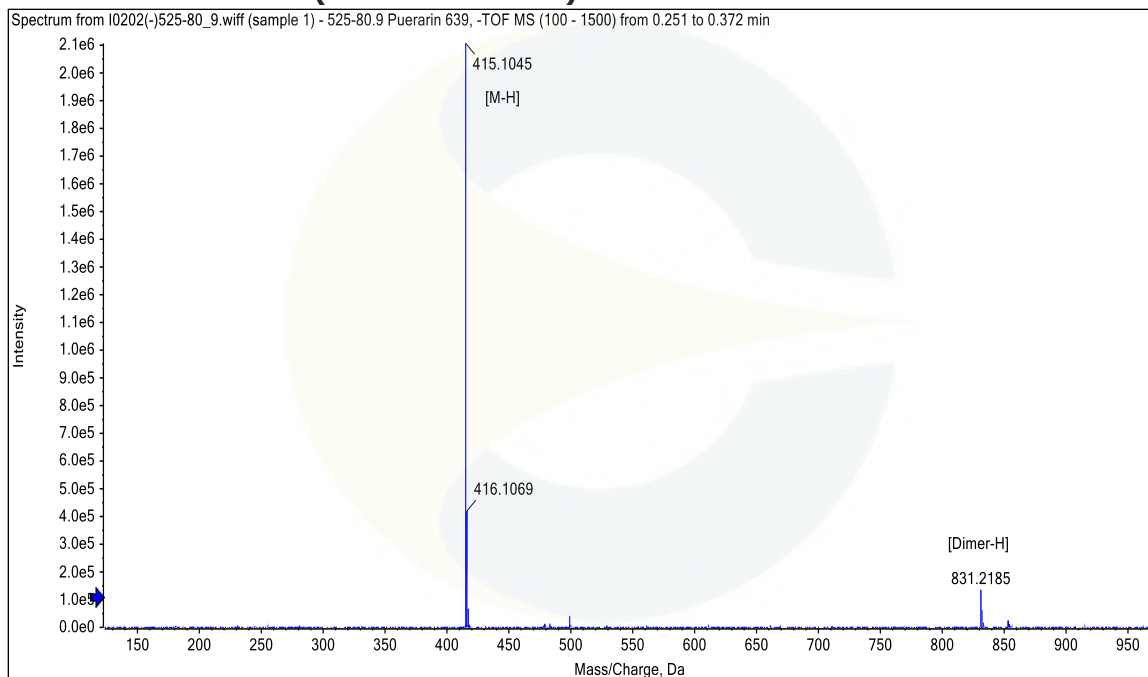
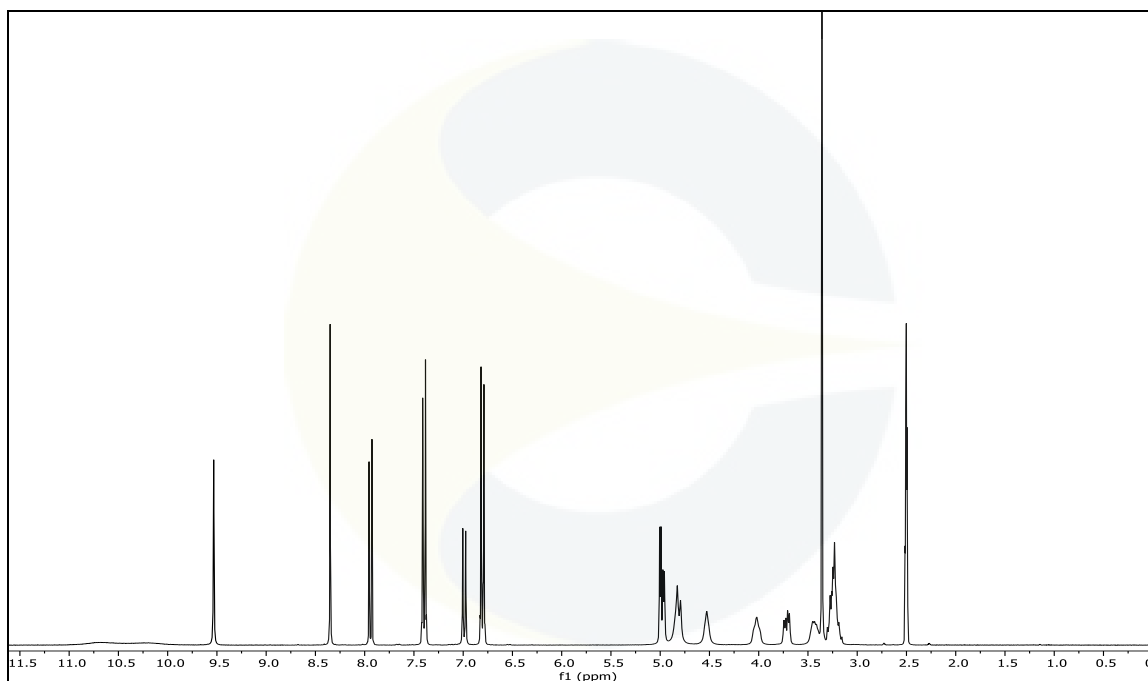
HPLC CHROMATOGRAM OF DILUENT BLANK



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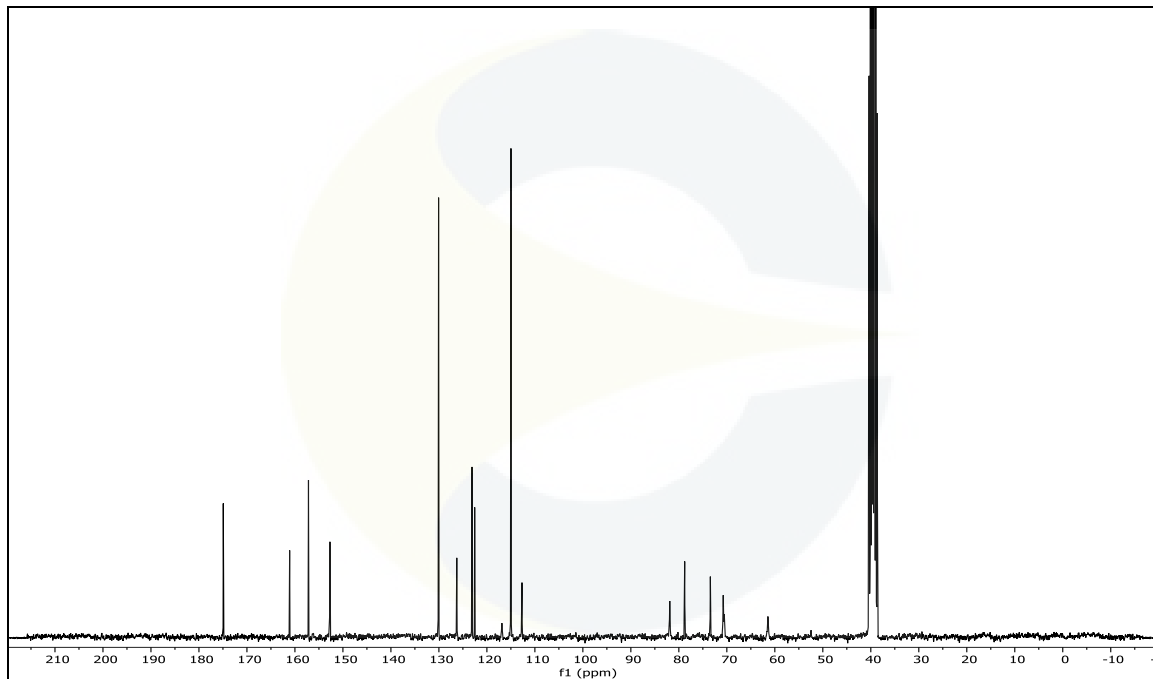
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MASS SPECTRUM OF PUERARIN (CDXP-20-00639)

¹H-NMR SPECTRUM OF PUERARIN (CDXP-20-00639) IN DMSO-d₆ + TMS


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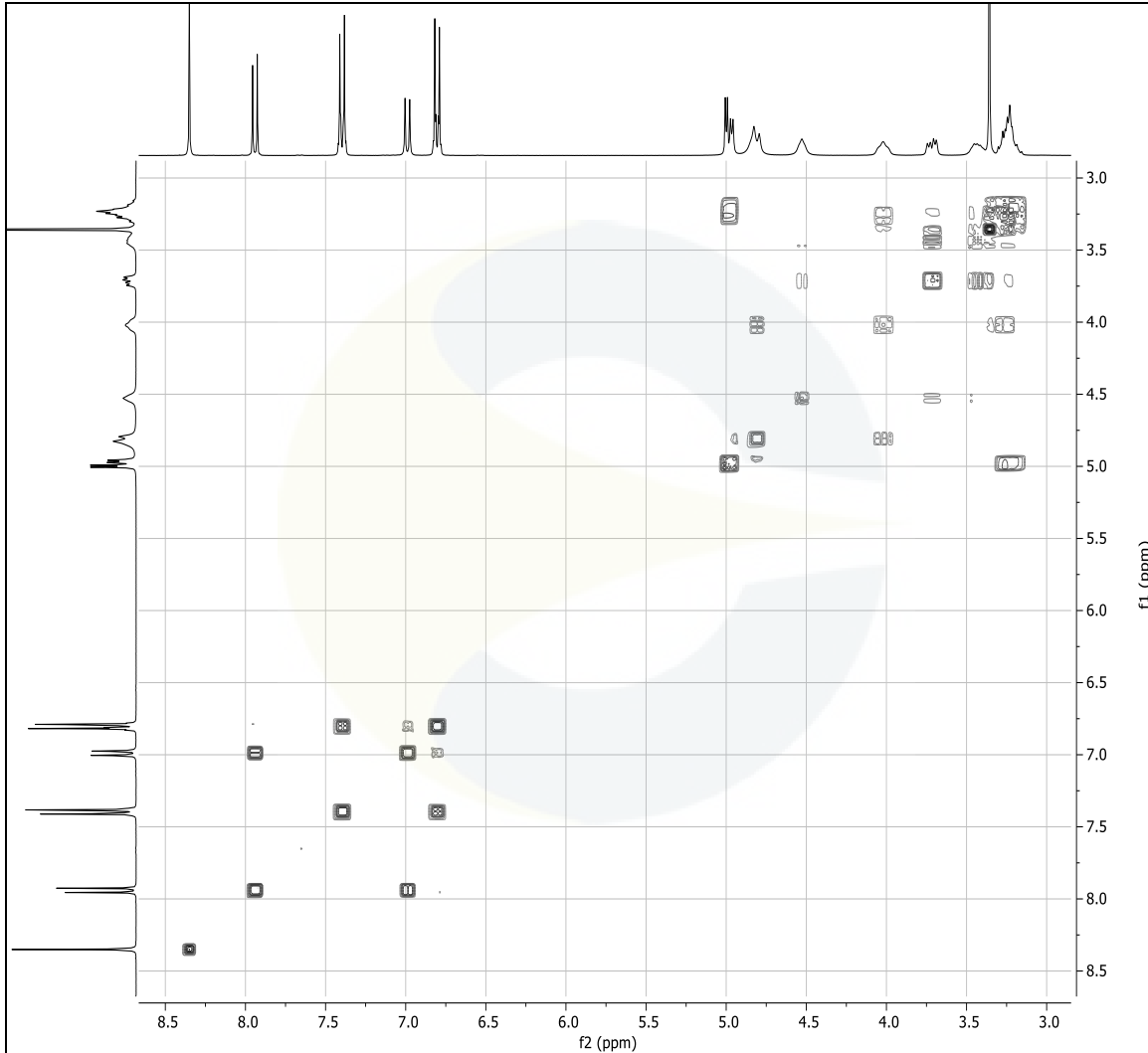
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¹³C-NMR SPECTRUM PUERARIN (CDXP-20-00639) IN DMSO-d₆ + TMS

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COSY-NMR SPECTRUM OF PUERARIN (CDXP-20-00639) IN DMSO-*d*₆ + TMS

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	09/28/2020	New report

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