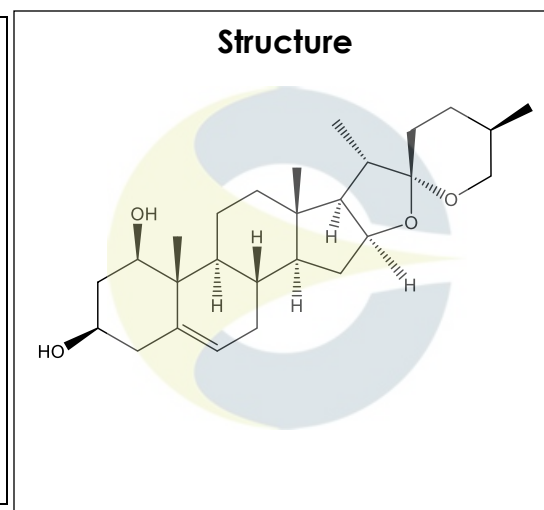


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PRODUCT NAME	Ruscogenin
PART NUMBER	00018415
STANDARD TYPE	Primary (P)
LOT NUMBER	00018415-22R
REPORT NUMBER	CDXA-RSS-8626-01
SAMPLE NUMBER	CDXP-19-00472
DATE OF SAMPLE	08/08/2019
DATE OF RE-EVALUATION	10/21/2020
DATE OF REPORT	11/05/2020



CHEMICAL NAMES	(1 β ,3 β ,25R)-Spirost-5-ene-1,3-diol
CHEMICAL FORMULA	C ₂₇ H ₄₂ O ₄
MOLECULAR WEIGHT (MW)	430.62
CHEMICAL FAMILY	Saponins
CAS NUMBER	[472-11-7]
EC#(EINECS)	207-447-2
RTECS	N/A

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	97.4%
HPLC	0.700.10.2.METH22	≥ 90%	97.8%
NMR	0.700.12.4	Conforms to structure	Conforms to structure
Mass Spectrum	0.700.12.27	Conforms	Conforms
Residual Solvent*	USP <467>	NA	Methanol – 0.4%
Water	0.700.12.37	NA	ND
Appearance	NA	NA	White powder

*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 97.4% IS BASED ON (100 - 0.4 SOLVENTS - 0.0 WATER) X 97.8% HPLC

STORAGE CONDITIONS

STORAGE	-20 °C in a dry place.
EXPIRATION DATE	10/2025 under the above conditions.

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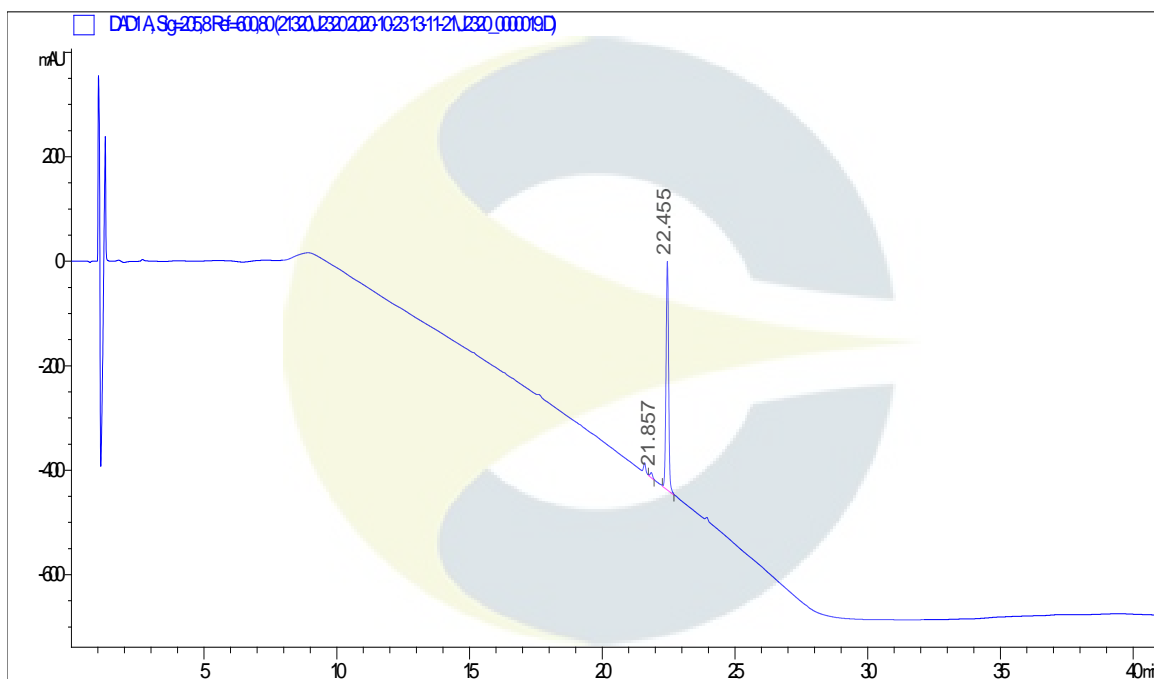
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ANALYTICAL CONDITIONS

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.
COLUMN TEMP.	60 °C
FLOW RATE	0.4 mL/minute
INJECTION VOL.	2.0 µL
INJECTION CONC.	1.0 mg/mL in Methanol
DETECTION	205 ± 4 nm

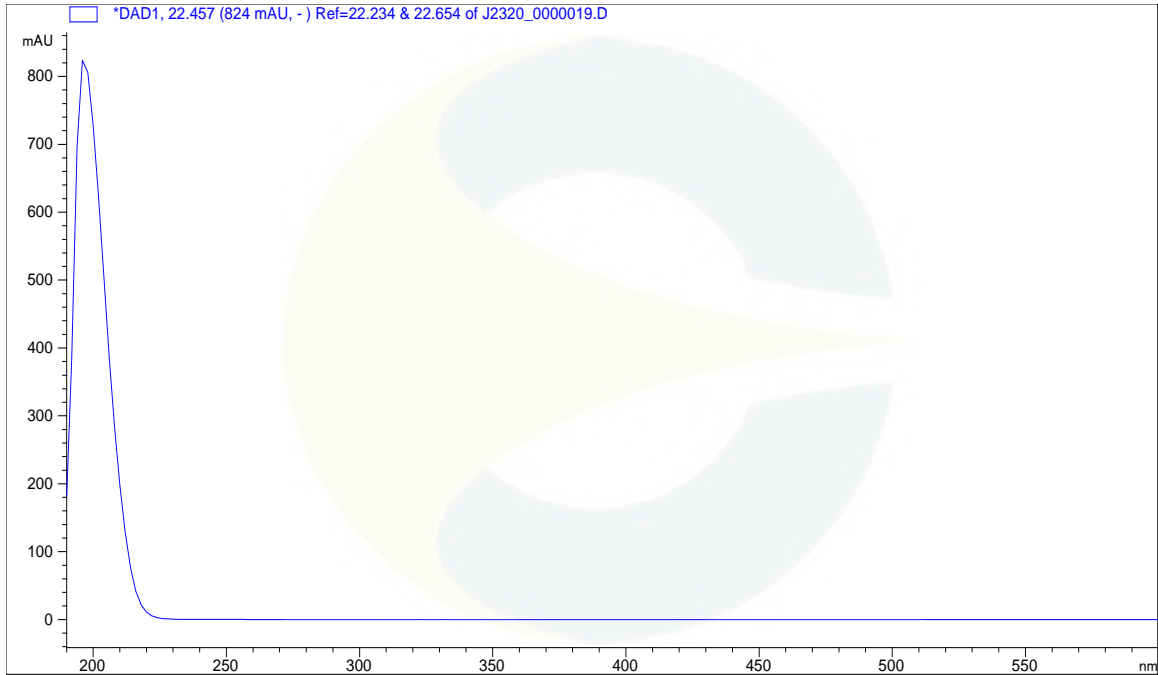
HPLC CHROMATOGRAM OF RUSCOGENIN (CDXP-19-00472)



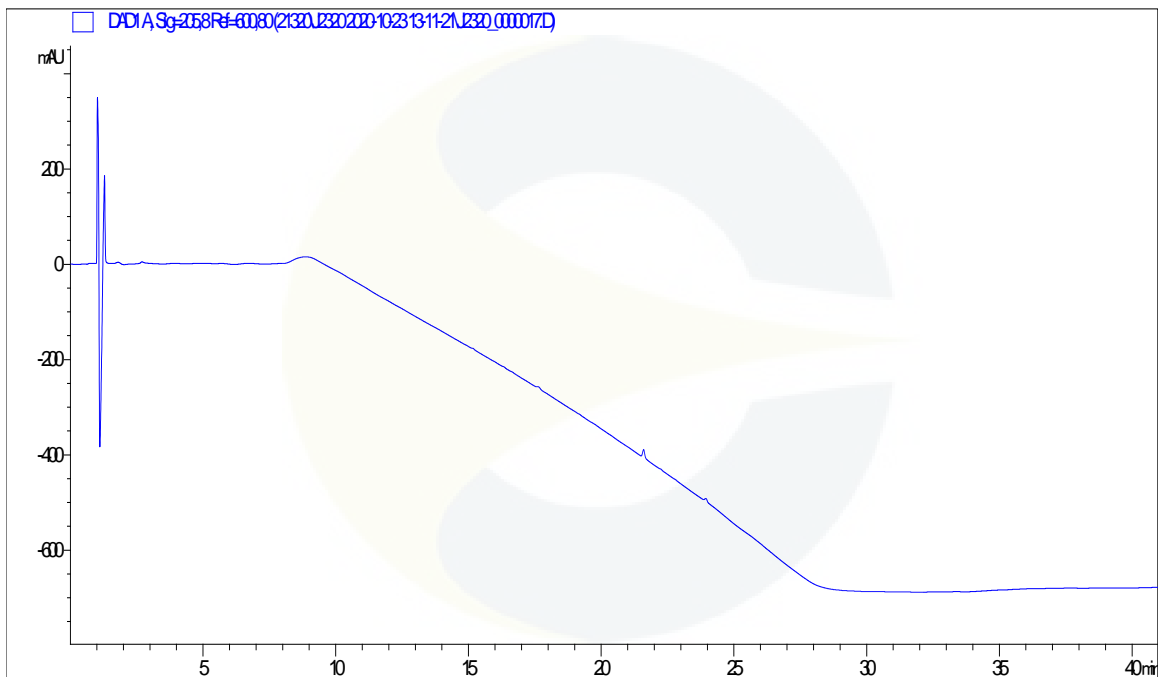
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UV SPECTRUM AT 22.5 MINUTES



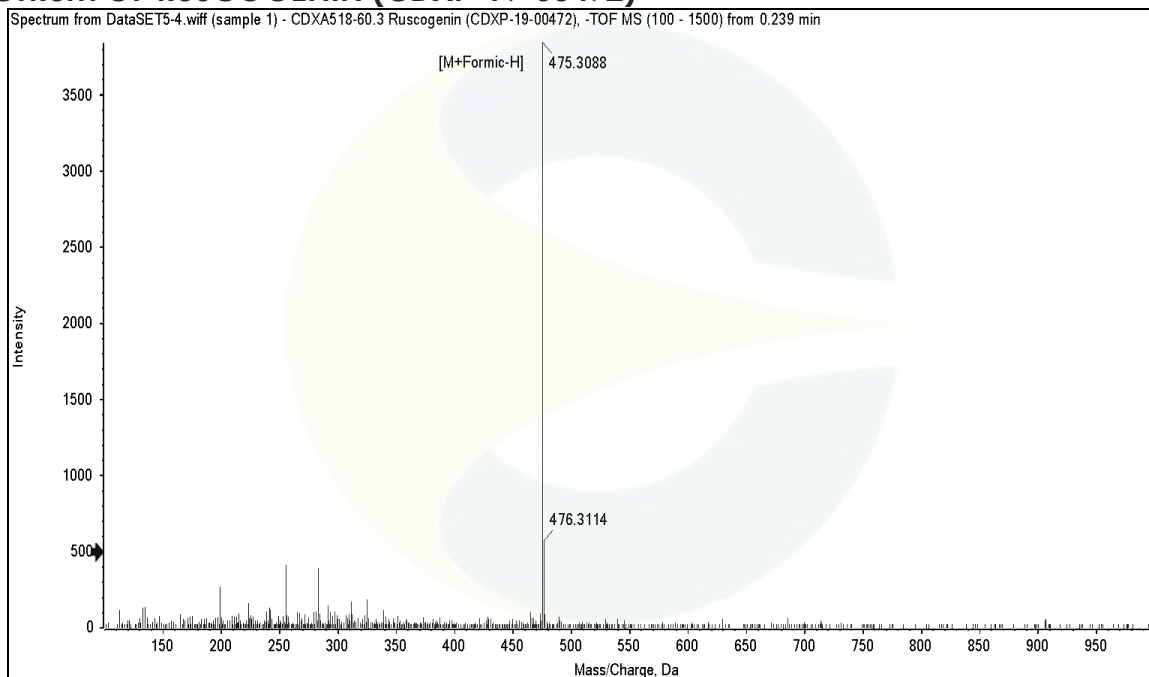
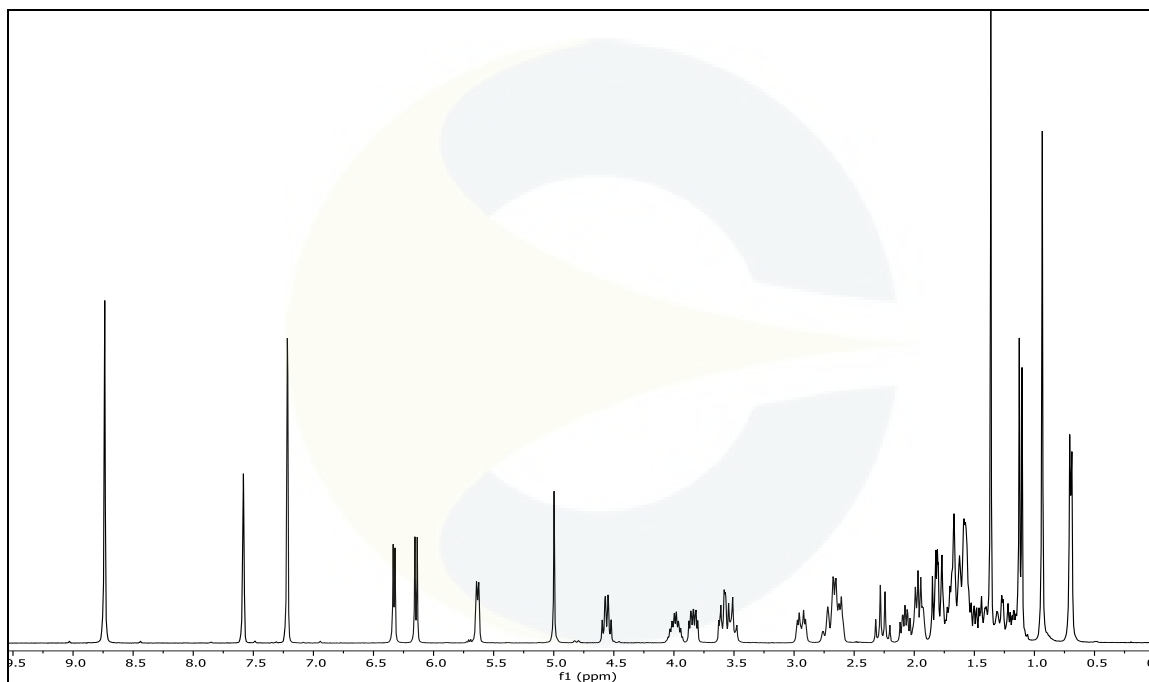
HPLC CHROMATOGRAM OF DILUENT BLANK



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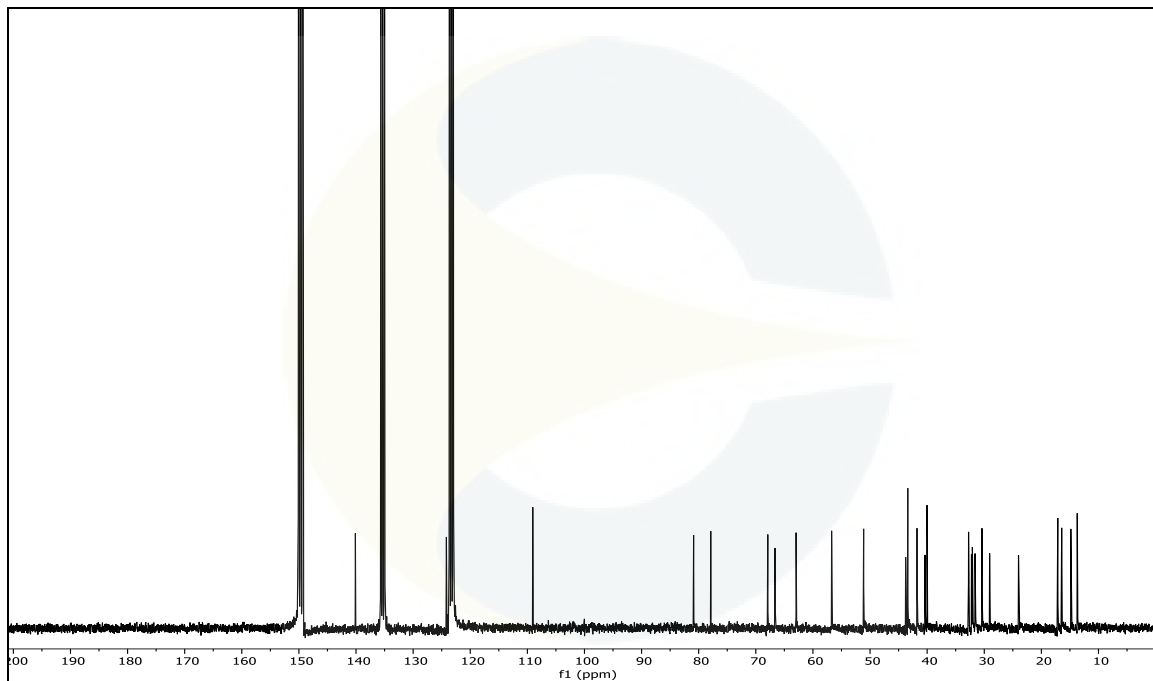
India Contact:
 Life Technologies (India) Pvt. Ltd.
 306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444
 Email: customerservice@lifetechindia.com Website: www.lifetechindia.com

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MASS SPECTRUM OF RUSCOGENIN (CDXP-19-00472)

¹H-NMR SPECTRUM OF RUSCOGENIN (CDXP-19-00472) IN PYRIDINE-d₅


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¹³C-NMR SPECTRUM OF RUSCOGENIN (CDXP-19-00472) IN PYRIDINE-d₅

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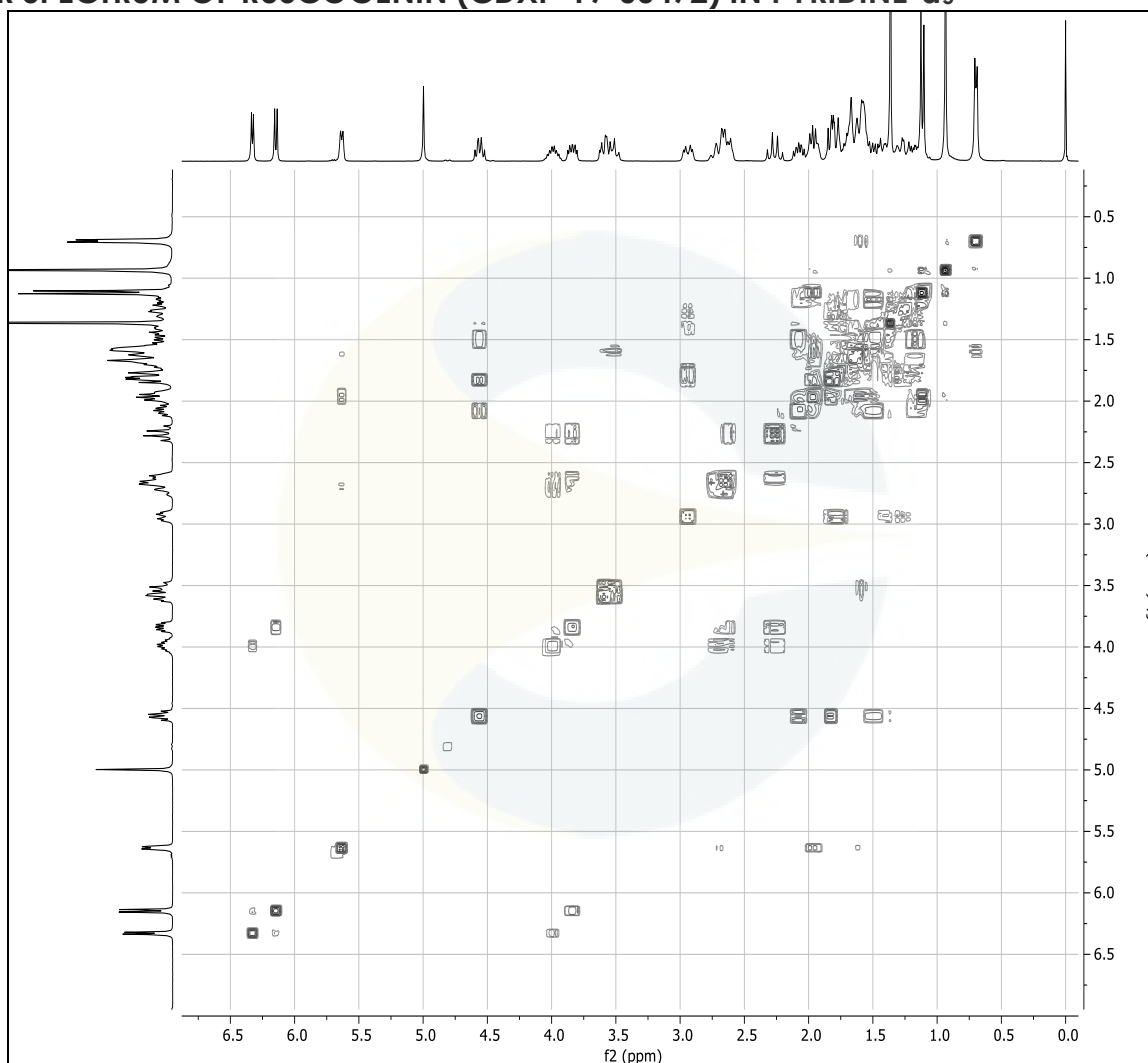
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COSY-NMR SPECTRUM OF RUSCOGENIN (CDXP-19-00472) IN PYRIDINE-*d*₅

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	08/30/2019	New report
02	11/05/2020	Material passed reevaluation by HPLC and KF. Updated expiration date, analytical results, conditions, and chromatograms.

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