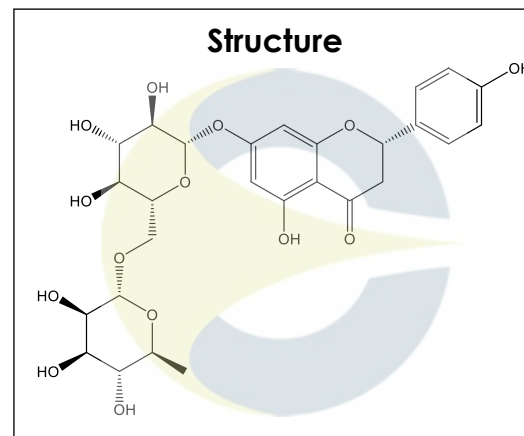


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PRODUCT NAME	Narirutin
PART NUMBER	00014230
STANDARD TYPE	Primary (P)
LOT NUMBER	00014230-901A
REPORT NUMBER	CDXA-RSS-10003-00
SAMPLE NUMBER	CDXP-22-01087
DATE OF SAMPLE	11/21/2022
DATE OF REPORT	12/07/2022



CHEMICAL NAMES	(2S)-7-((6-O-(6-Deoxy-α-L-mannopyranosyl)-β-D-glucopyranosyl)oxy)-2,3-dihydro-5-hydroxy-2-(4-hydroxyphenyl)-4H-1-benzopyran-4-one; 7-β-Rutinoside-4',5,7-trihydroxy-flavanone; Isonaringenin; Isonaringin; Naringenin 7-β-rutinoside
CHEMICAL FORMULA	C ₂₇ H ₃₂ O ₁₄
MOLECULAR WEIGHT (MW)	580.53
CHEMICAL FAMILY	Flavanones
CAS NUMBER	[14259-46-2]
EC#(EINECS)	238-138-0
RTECS	DJ2979450

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	89.8%
HPLC	0.700.10.2.METH22	≥ 90%	98.4%
NMR	0.700.12.4	Conforms to structure	Conforms to structure
Mass Spectrum	0.700.12.27	Conforms	Conforms
Residual Solvent*	USP <467>	NA	1,2-Dichloroethane: 32700 ppm Acetonitrile: 1300 ppm Ethyl Acetate: 1500 ppm
Water	0.700.12.37	NA	5.1%
Appearance	NA	NA	White powder

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*Testing performed at an ISO 17025 accredited subcontracted laboratory.
ADJUSTED PURITY: 89.8% IS BASED ON (100 - 3.6 SOLVENTS - 5.1 WATER) X 98.4% HPLC

STORAGE CONDITIONS

STORAGE Room Temperature in a dry place.
EXPIRATION DATE 11/2027 under the above conditions.

ANALYTICAL CONDITIONS

INSTRUMENT AGILENT 1260 HPLC UV-VIS (DAD) CONNECTED TO DIONEX CORONA VEO CHARGED AEROSOL DETECTOR (CAD); 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. 0.5 µL

INJECTION CONC. 1.0 mg/mL in Methanol

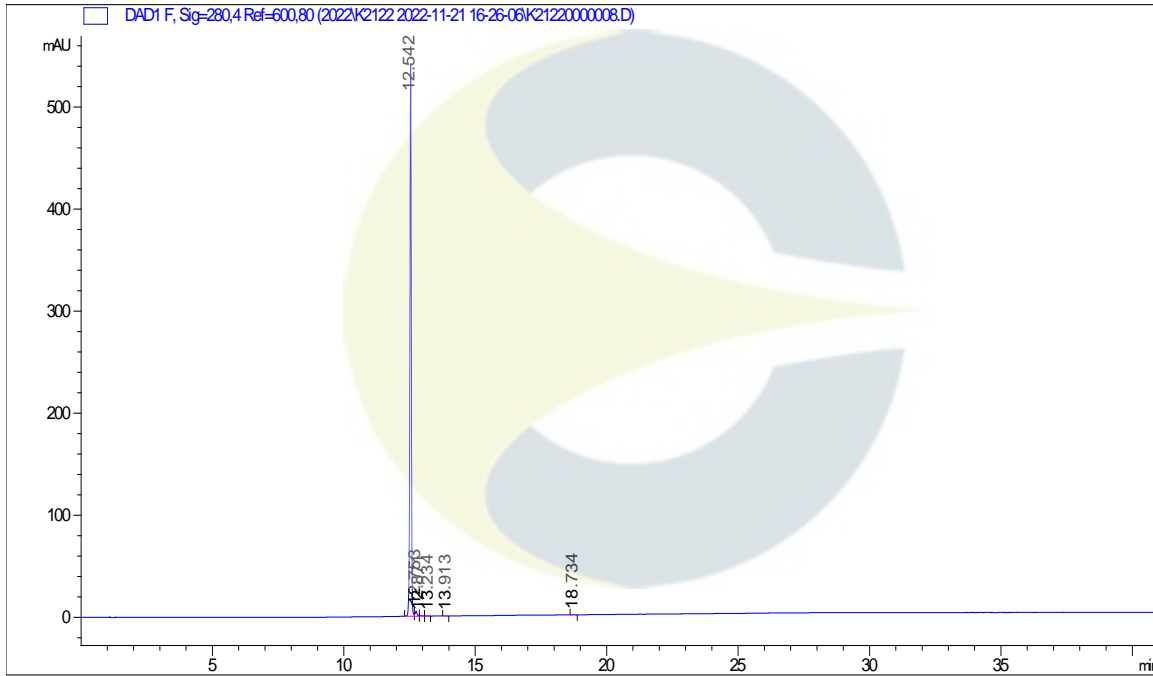
DETECTION 280 ± 2 nm

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HPLC CHROMATOGRAM OF NARIRUTIN (CDXP-22-01087)



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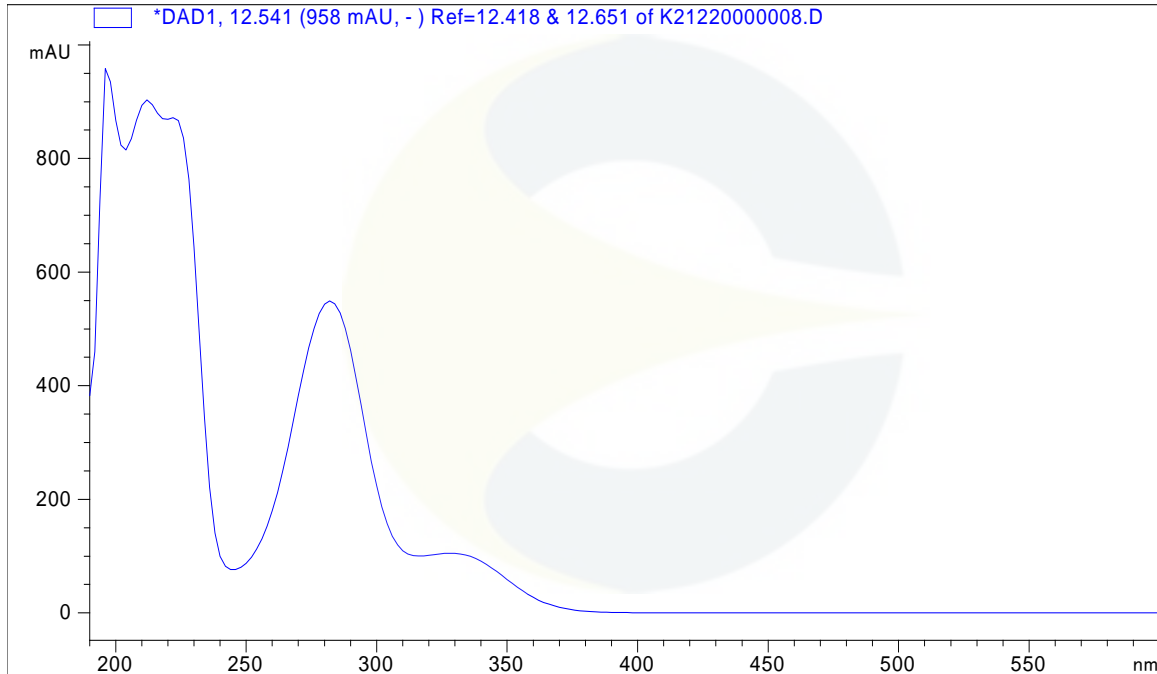
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Email: customerservice@lifetechindia.com Website: www.lifetechindia.com

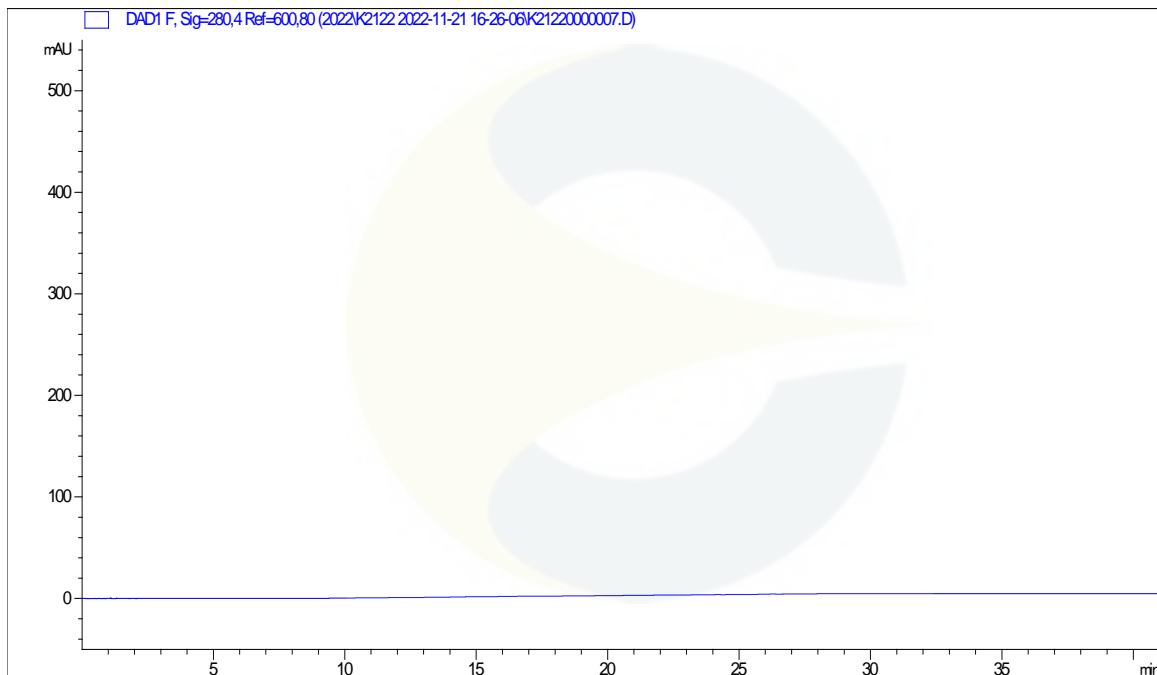
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UV SPECTRUM AT RT = MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK



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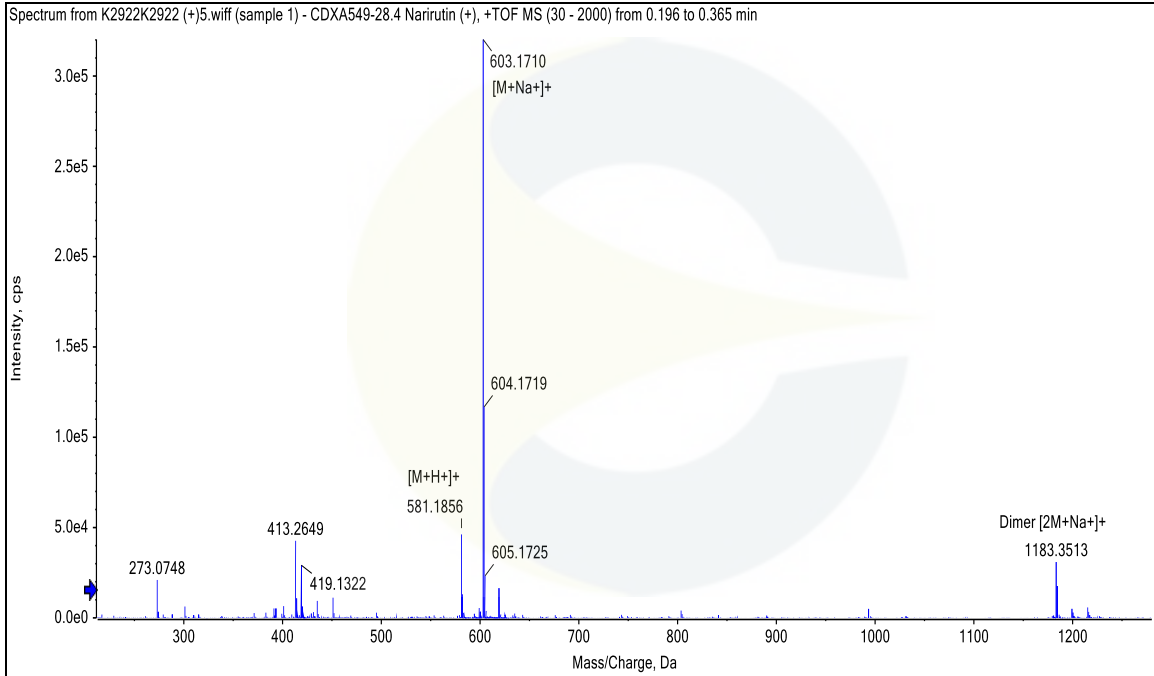
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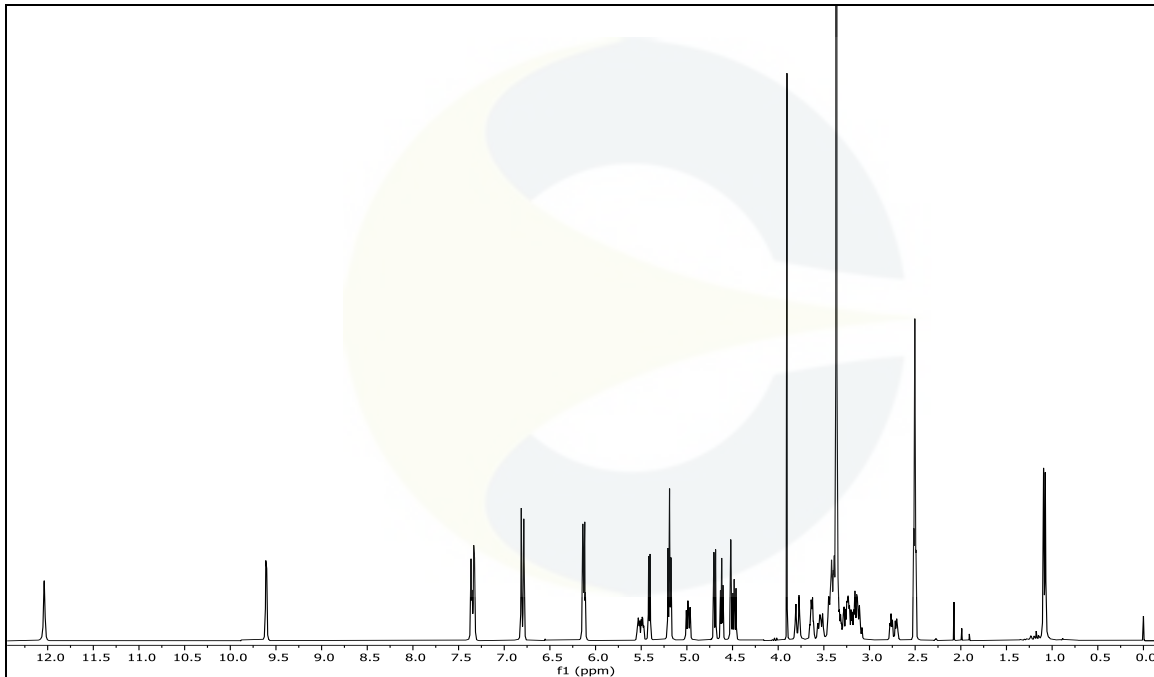
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MASS SPECTRUM OF NARIRUTIN (CDXP-22-01087)

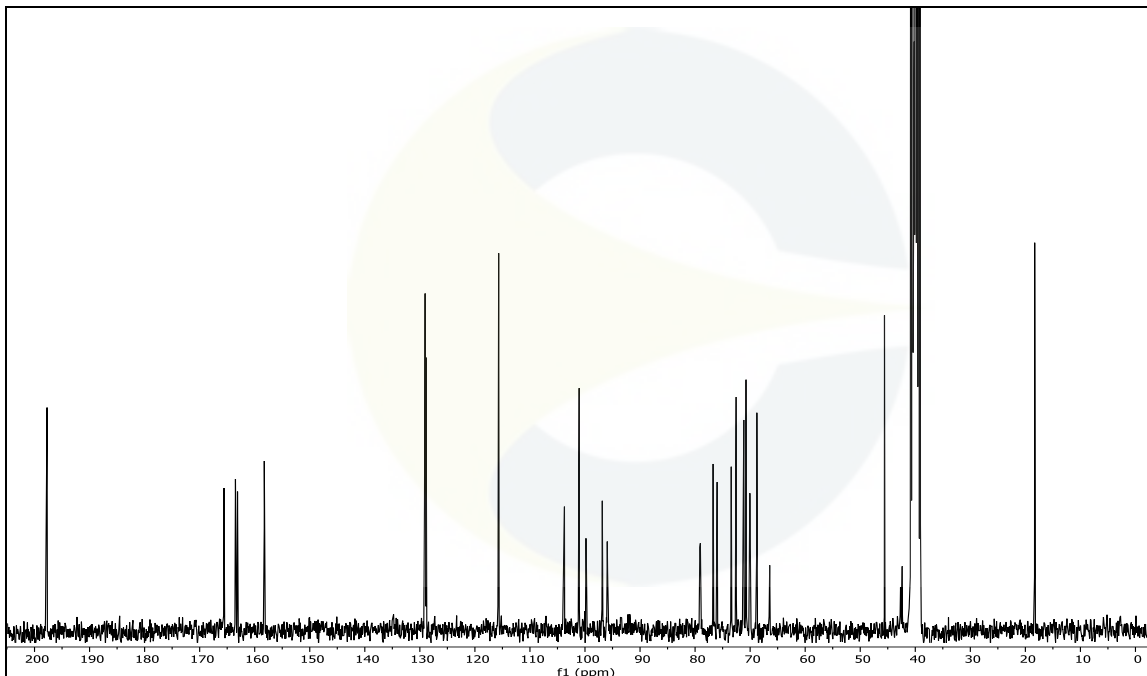


¹H-NMR SPECTRUM OF NARIRUTIN (CDXP-22-01087) IN DMSO-d₆ + TMS



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¹³C-NMR SPECTRUM NARIRUTIN (CDXP-22-01087) IN DMSO-d₆ + TMS

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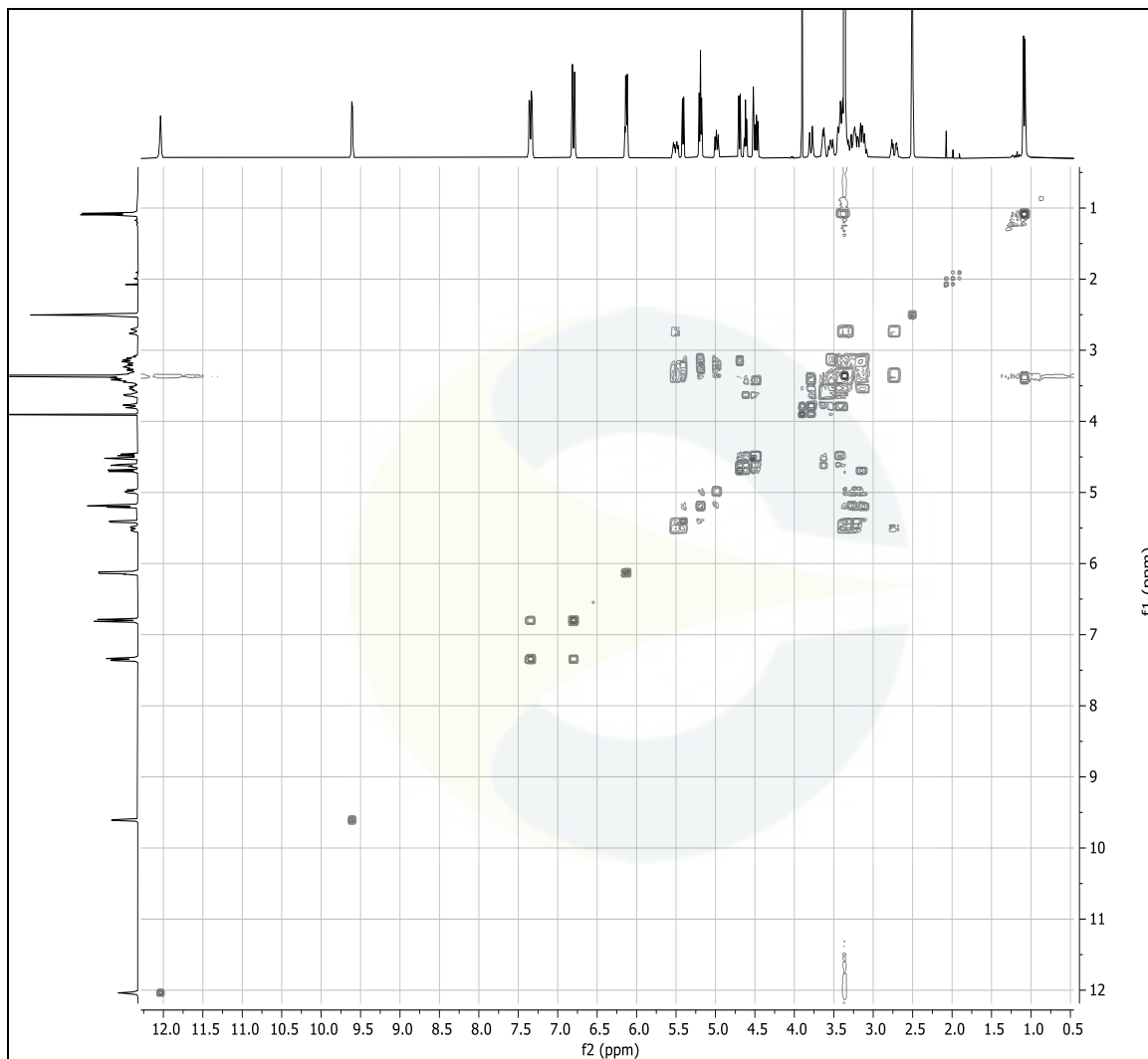
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COSY-NMR SPECTRUM OF NARIRUTIN (CDXP-22-01087) IN DMSO-*d*₆ + TMS

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	12/07/2022	New report

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