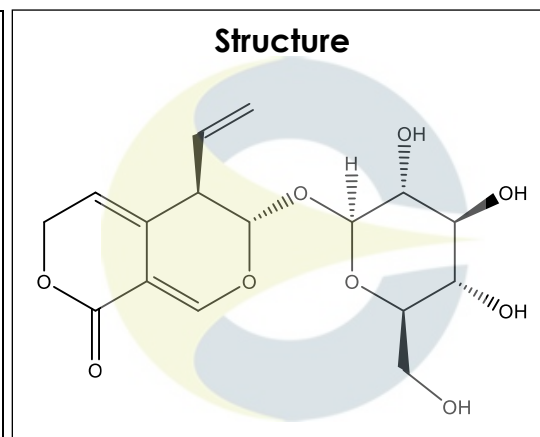


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PRODUCT NAME	Gentiopicroside
PART NUMBER	00007130
STANDARD TYPE	Primary (P)
LOT NUMBER	00007130-226
REPORT NUMBER	CDXA-RSS-10006-00
SAMPLE NUMBER	CDXP-22-01084
DATE OF SAMPLE	11/21/2022
DATE OF REPORT	12/12/2022



CHEMICAL NAMES	(5R,6S)-5-Ethenyl-6-(β-D-glucopyranosyloxy)-5,6-dihydro-1H,3H-pyrano[3,4-c]pyran-1-one; Gentiopicrocin
CHEMICAL FORMULA	C ₁₆ H ₂₀ O ₉
MOLECULAR WEIGHT (MW)	356.32
CHEMICAL FAMILY	Iridoids
CAS NUMBER	[20831-76-9]
EC#(EINECS)	244-070-2
RTECS	UQ1365800

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	99.8%
HPLC	0.700.10.2.METH22	≥ 90%	99.9%
NMR	0.700.12.4	Conforms to structure	Conforms to structure
Mass Spectrum	0.700.12.27	Conforms	Conforms
Residual Solvent*	USP <467>	NA	MeOH – 1060 ppm
Water	0.700.12.37	NA	ND
Appearance	NA	NA	White powder

*Testing performed at an ISO 17025 accredited subcontracted laboratory.
 ADJUSTED PURITY: 99.8% IS BASED ON (100 - 0.1 SOLVENTS - 0.0 WATER) X 99.9% HPLC

STORAGE CONDITIONS

STORAGE	+4 °C in a dry place.
EXPIRATION DATE	11/2027 under the above conditions.

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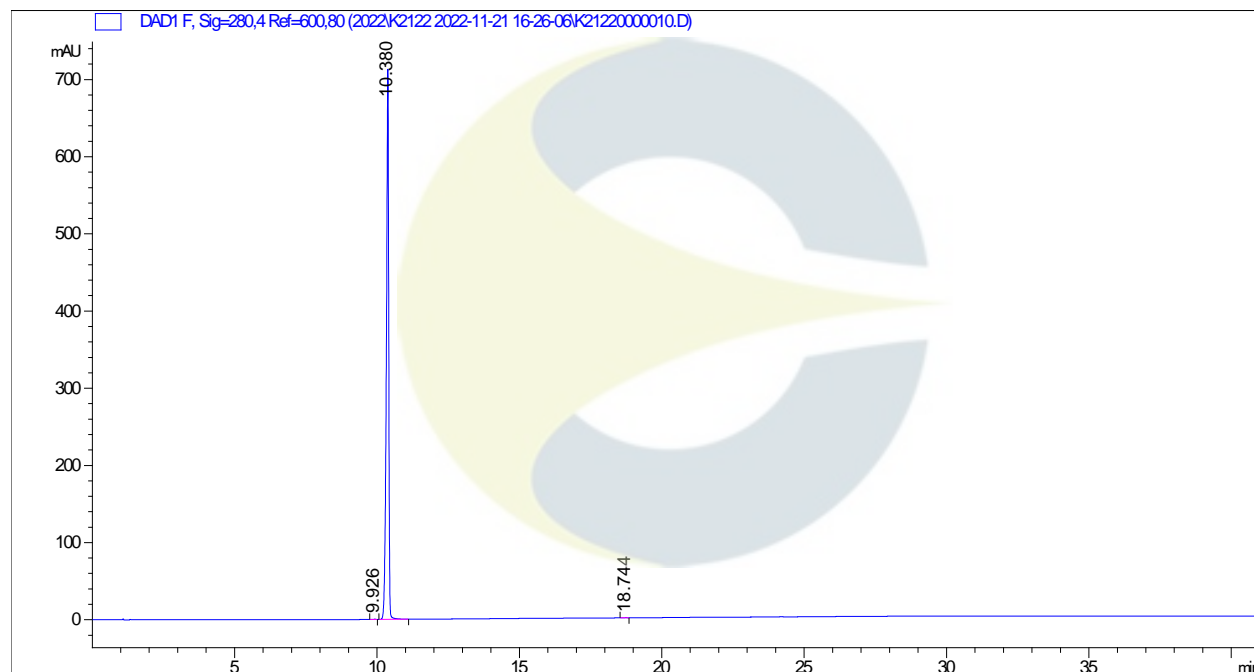
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ANALYTICAL CONDITIONS

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.	1.0 µL
INJECTION CONC.	1.0 mg/mL in Methanol
DETECTION	280 ± 2 nm

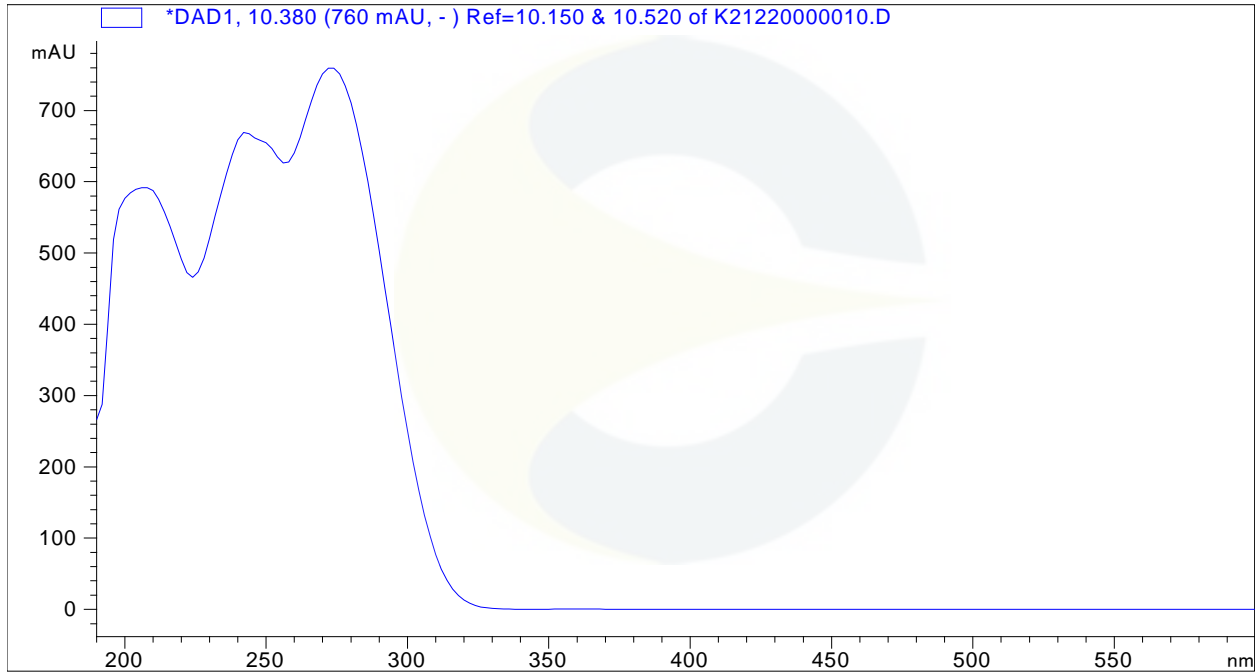
HPLC CHROMATOGRAM OF GENTIOPIICOSIDE (CDXP-22-01084)



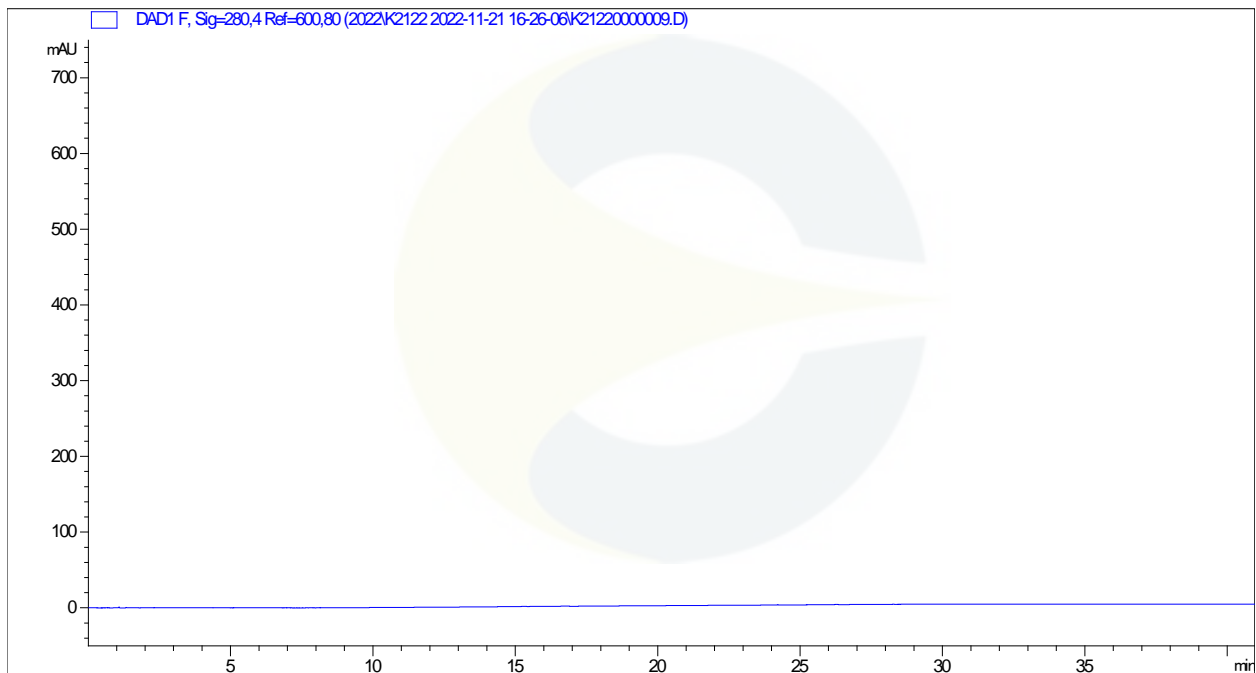
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UV SPECTRUM AT RT = 10.4 MINUTES



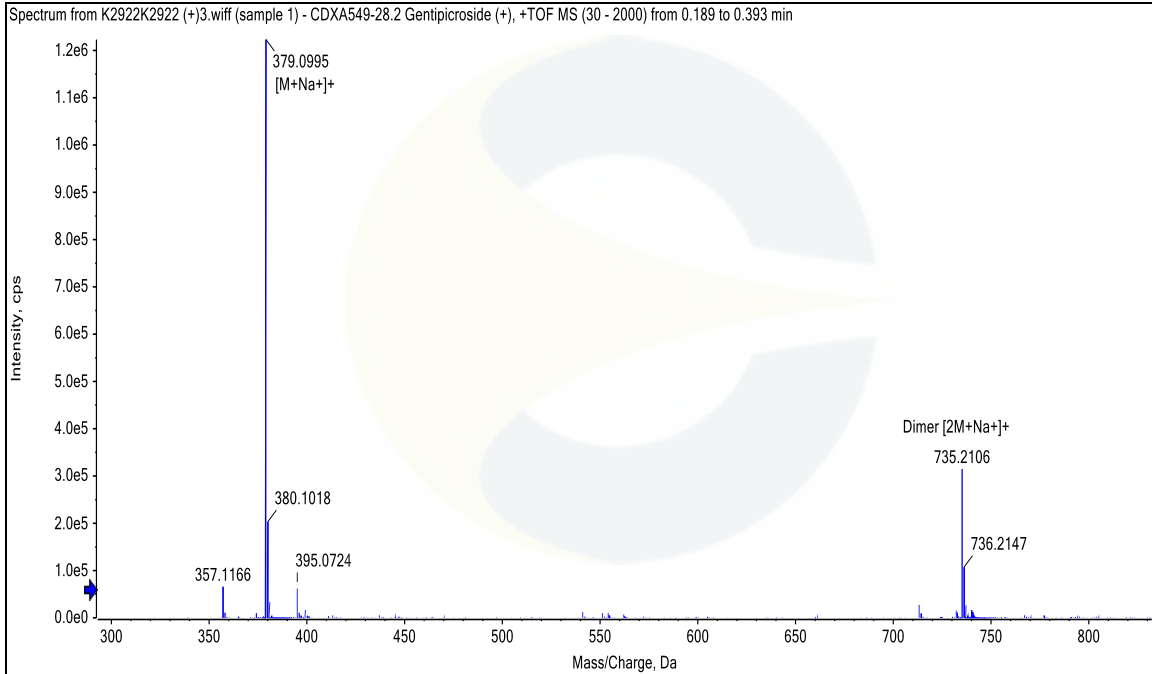
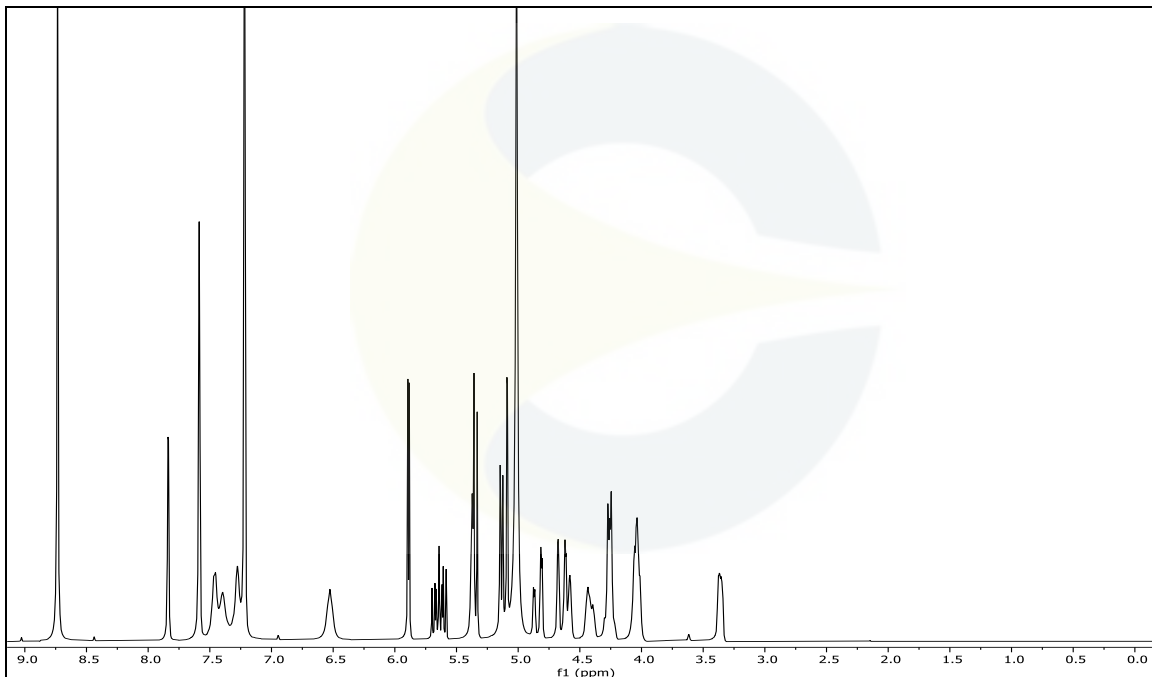
HPLC CHROMATOGRAM OF DILUENT BLANK



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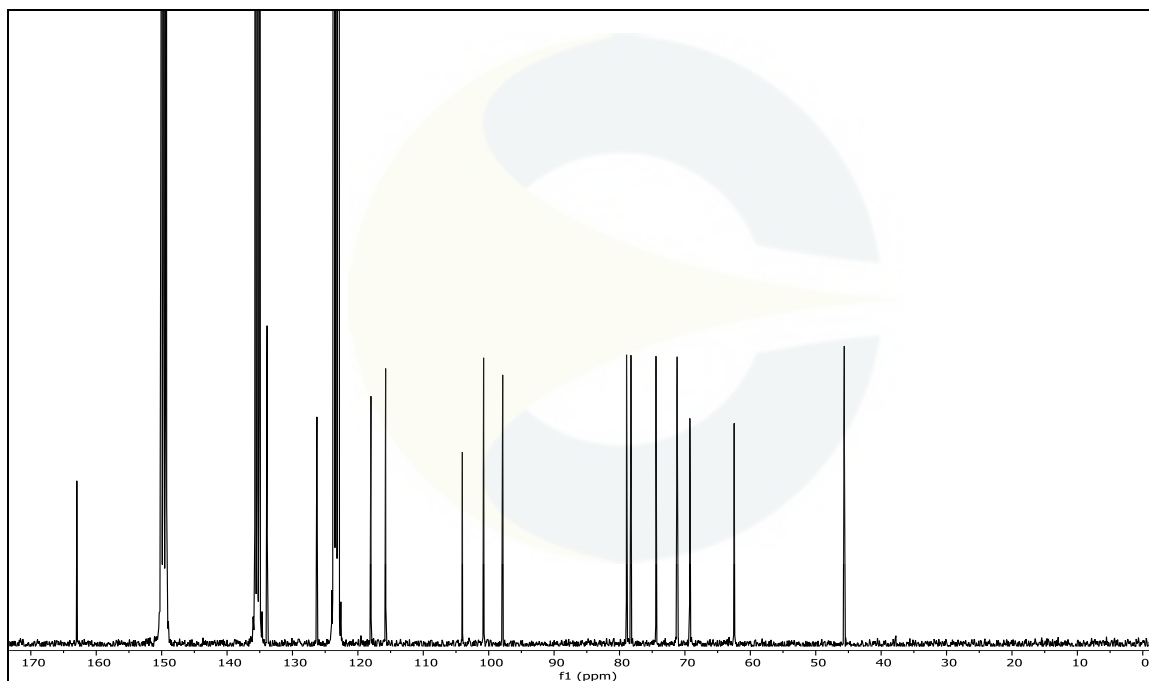
India Contact:
 Life Technologies (India) Pvt. Ltd.
 306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444
 Email: customerservice@lifetechindia.com Website: www.lifetechindia.com

MASS SPECTRUM OF GENTIOPICOSIDE (CDXP-22-01084)

¹H-NMR SPECTRUM OF GENTIOPICOSIDE (CDXP-22-01084) IN PYRIDINE-d₅


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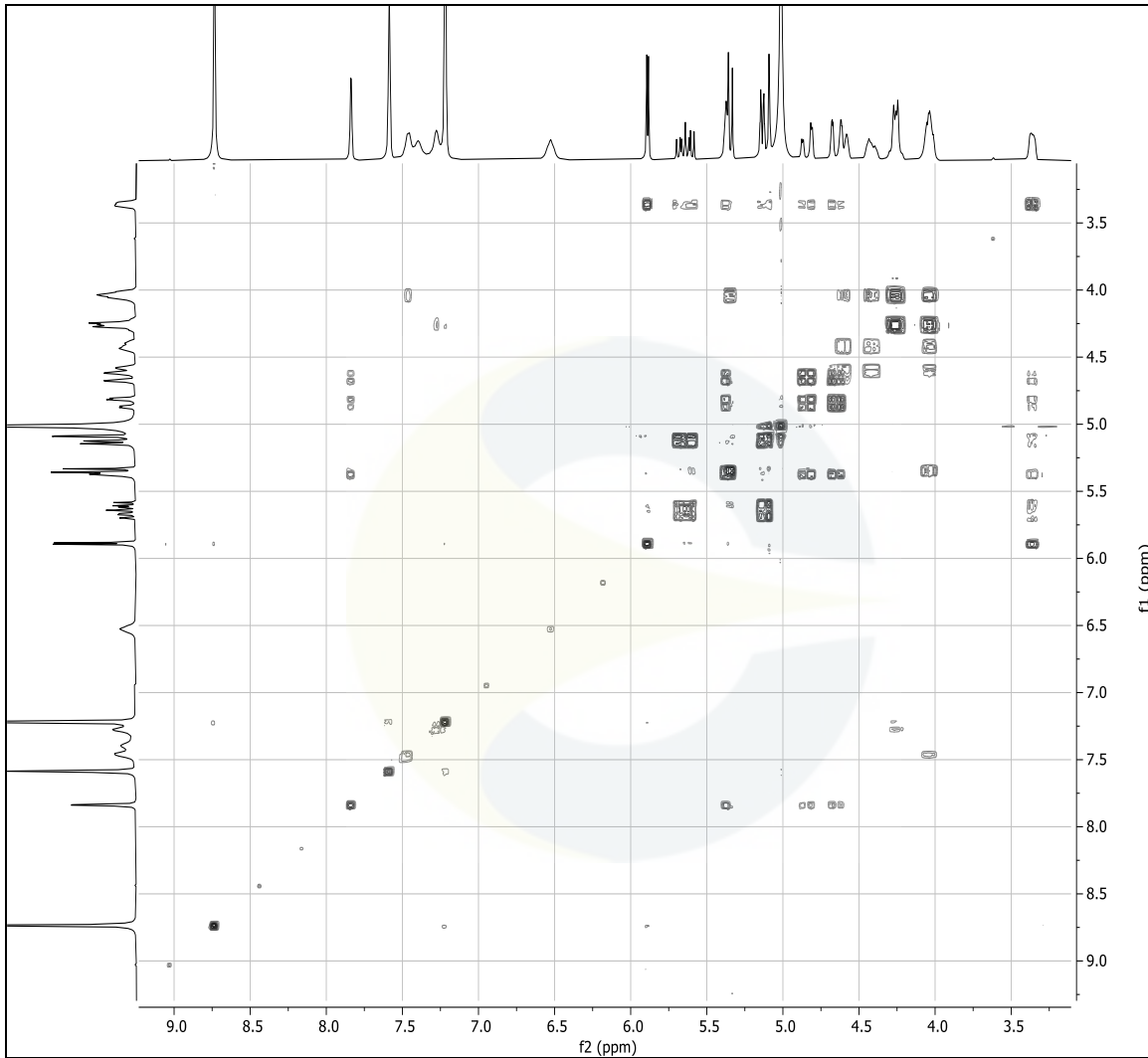
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¹³C-NMR SPECTRUM GENTIOPIICOSIDE (CDXP-22-01084) IN PYRIDINE-d₅

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COSY-NMR SPECTRUM OF GENTIOPICOSIDE (CDXP-22-01084) IN PYRIDINE-*d*₅

REVISION HISTORY

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

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