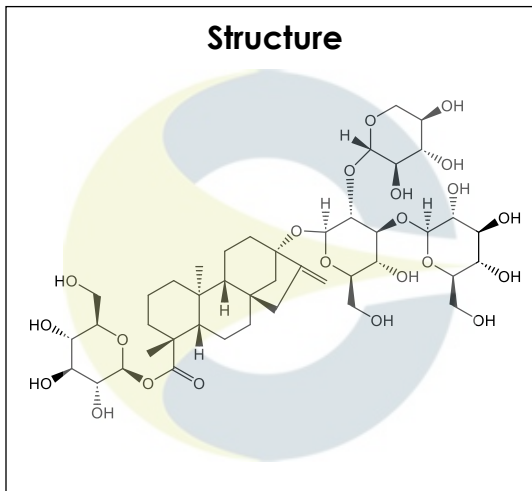


Certificate of Analysis

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PRODUCT NAME	Rebaudioside F	 <p>Structure</p>
PART NUMBER	00018305	
STANDARD TYPE	Primary (P)	
LOT NUMBER	00018305-00264	
REPORT NUMBER	CDXA-RSS-8583-02	
SAMPLE NUMBER	CDXP-19-00264	
DATE OF SAMPLE	04/04/2019	
DATE OF RE-EVALUATION	09/24/2019	
DATE OF REPORT	03/03/2023	

CHEMICAL NAMES	(4 α)-13-[(O- β -D-Glucopyranosyl-(1 \rightarrow 3))-O-[β -D-xlyopyranosyl-(1 \rightarrow 2)]- β -D-glucopyranosyl)oxy]-kaur-16-en-18-oic acid- β -D-glucopyranosyl ester
CHEMICAL FORMULA	C ₄₃ H ₆₈ O ₂₂
MOLECULAR WEIGHT (MW)	936.99
CHEMICAL FAMILY	Diterpene glycosides
CAS NUMBER	[438045-89-7]
EC#(EINECS)	NA
RTECS	NZ8175600

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	$\geq 85\%$	87.4%
HPLC	99.1-04-6.0-000118	$\geq 90\%$	96.7%
NMR	30.1-04-1.0-000733	Conforms to structure	Conforms to structure
Mass Spectrum	99.1-04-3.0-000126	Conforms	Conforms
Residual Solvent	99.1-CDXA-3.0-000621	NA	0.7% MeOH; <0.1% EtOH; <0.1% Acetonitrile
Water	0.700.12.37	NA	8.9%
Appearance	NA	NA	Off white powder

ADJUSTED PURITY: 87.4% IS BASED ON (100 - 0.7 SOLVENTS - 8.9 WATER) X 96.7% HPLC

STORAGE CONDITIONS
STORAGE -20 °C in a dry place.

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EXPIRATION DATE 09/2024 under the above conditions.

ANALYTICAL CONDITIONS

INSTRUMENT AGILENT 1260 HPLC UV-VIS (DAD; AB-SCIEX 6600 TRIPLE TOF)

COLUMN Phenomenex Synergi Hydro-RP 250 x 4.6mm, 4 µm particle size

MOBILE PHASE A - Ultrapure water, B - Acetonitrile;
 Isocratic 20% B for 5 minutes, then increasing to 30% B over 10 minutes, then increasing to 35% over 15 minutes, then increasing to 80% B over 10 minutes, then increasing to 90% B over 5 minutes. Hold at 90% B for 5 minutes. Decrease to 20% B over 1 minute. Hold at 20% B for 9 minutes.

COLUMN TEMP. 60 °C

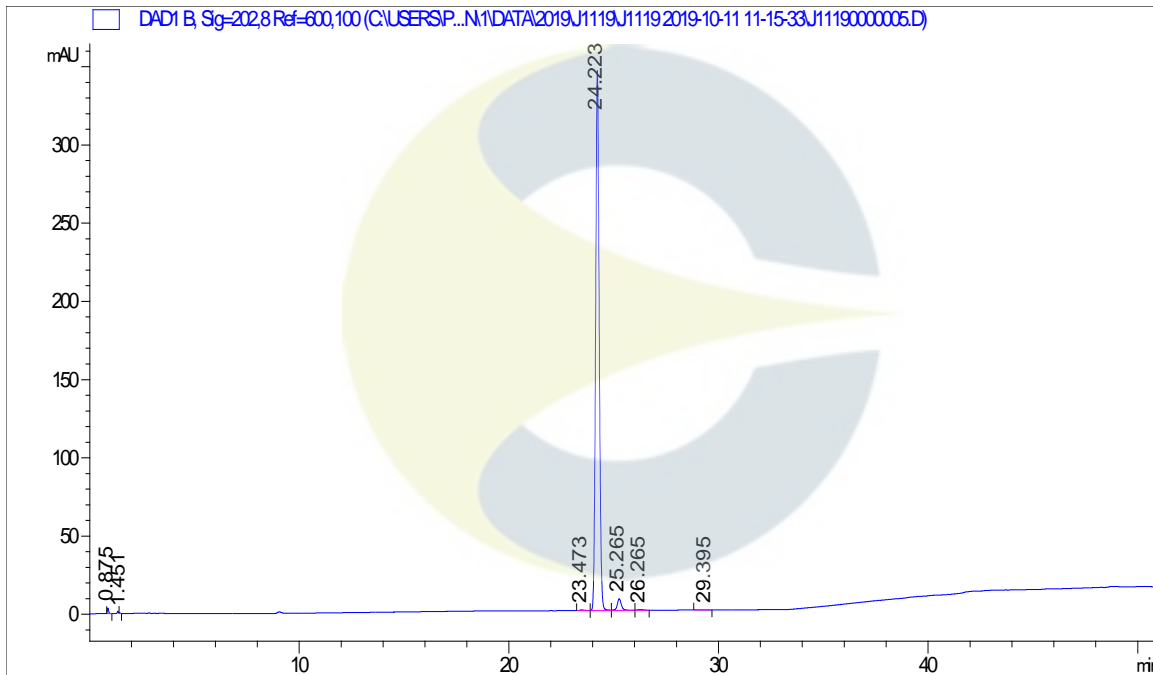
FLOW RATE 1.0 mL/minute

INJECTION VOL. 10 µL

INJECTION CONC. 1.0 mg/mL in (70:30) Ultrapure water: Acetonitrile

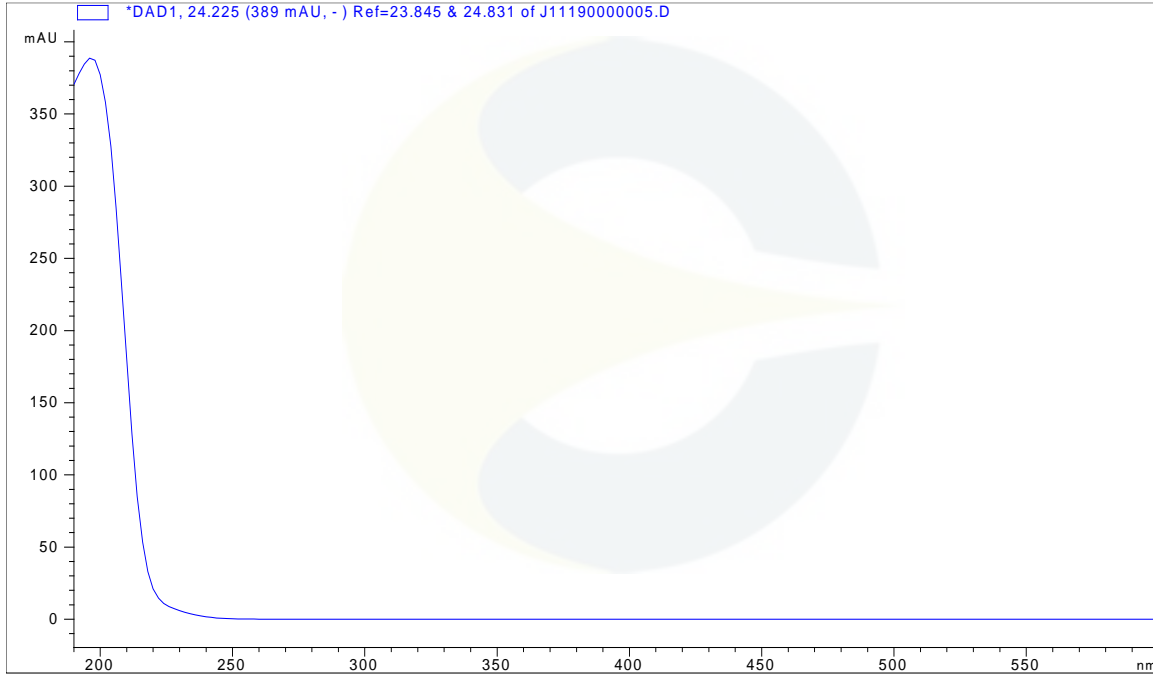
DETECTION 202 ± 4 nm

HPLC CHROMATOGRAM OF REBAUDIOSIDE F (CDXP-19-00264)

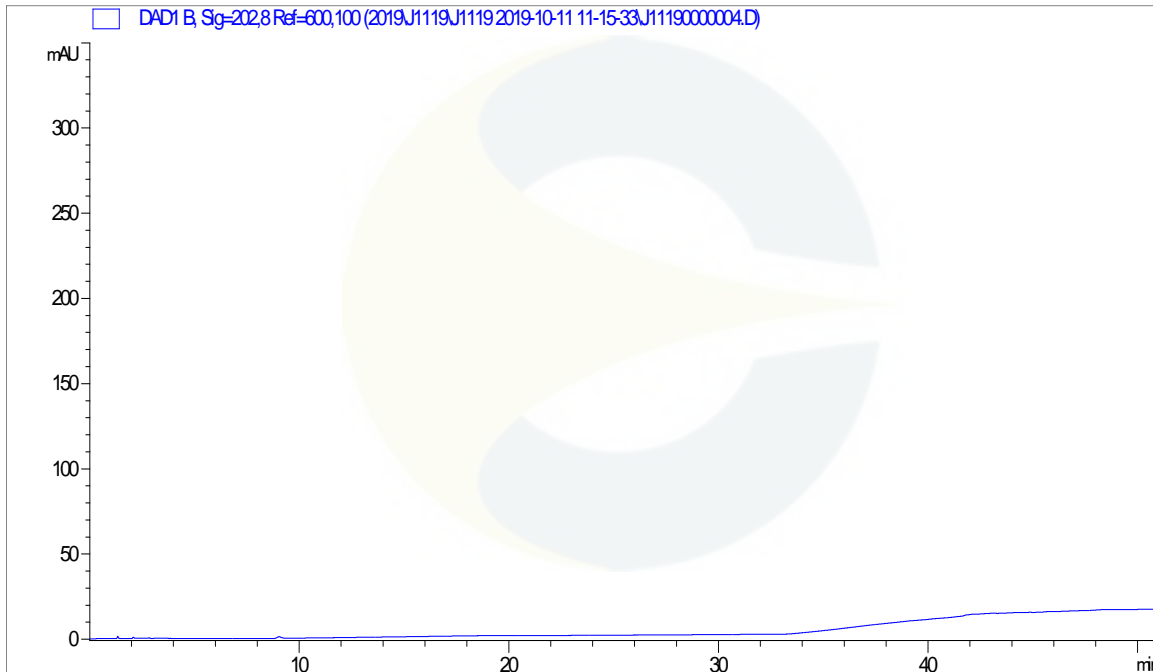


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UV SPECTRUM AT RT = 24.2 MINUTES



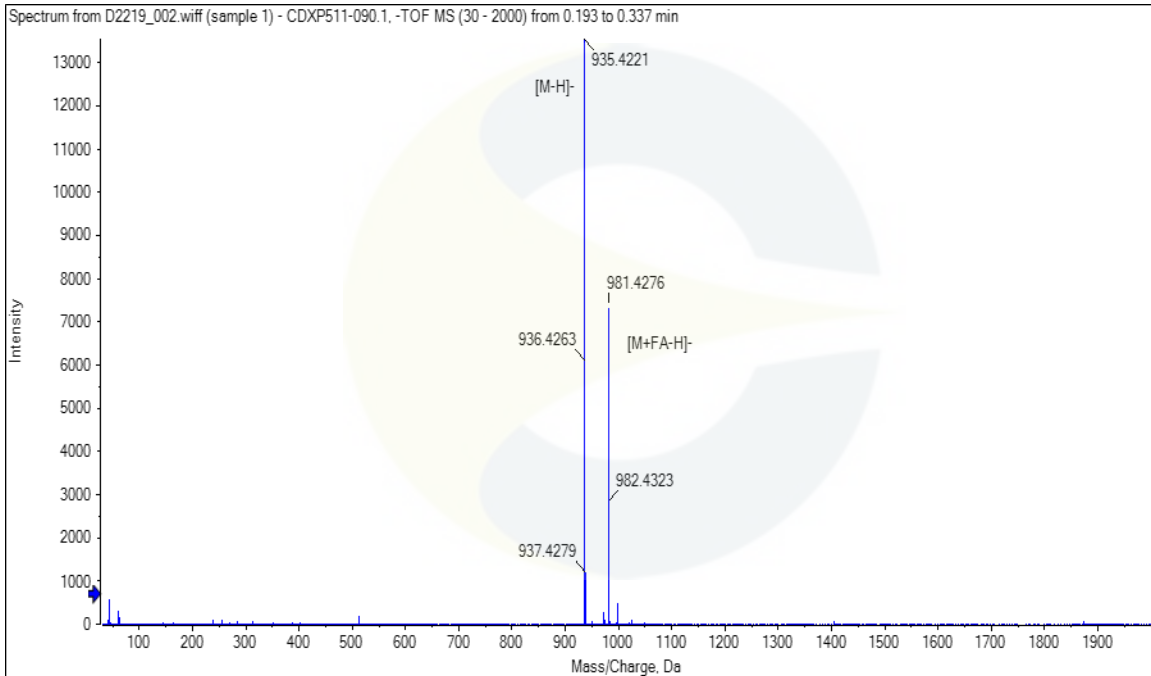
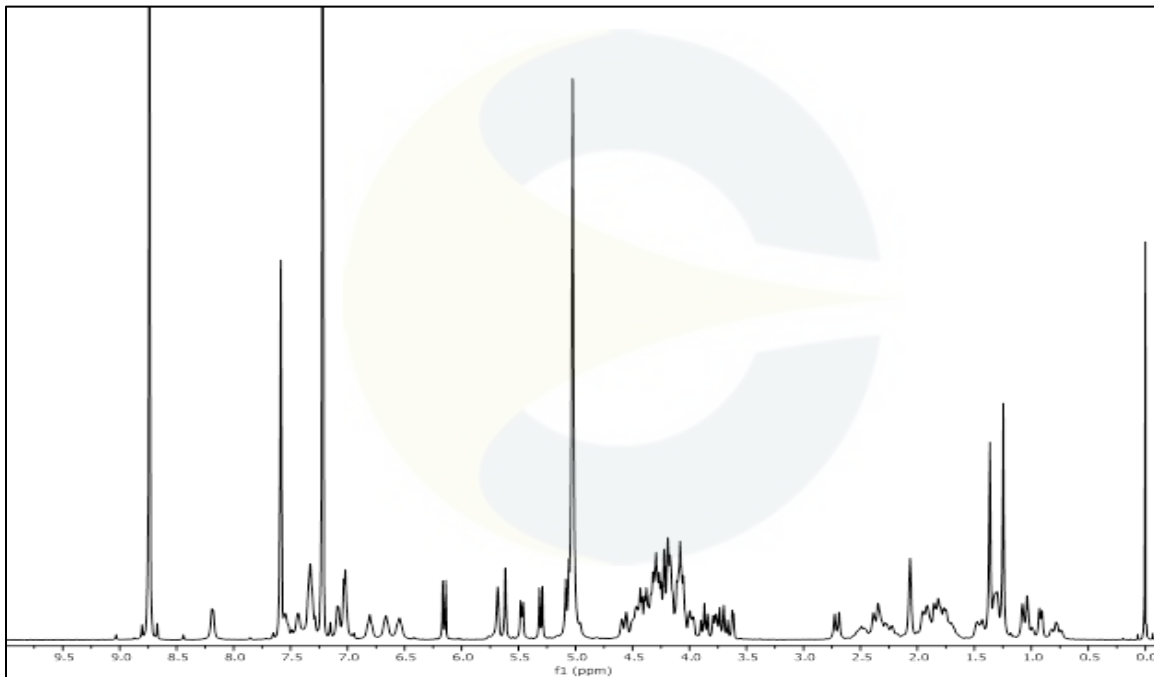
HPLC CHROMATOGRAM OF DILUENT BLANK



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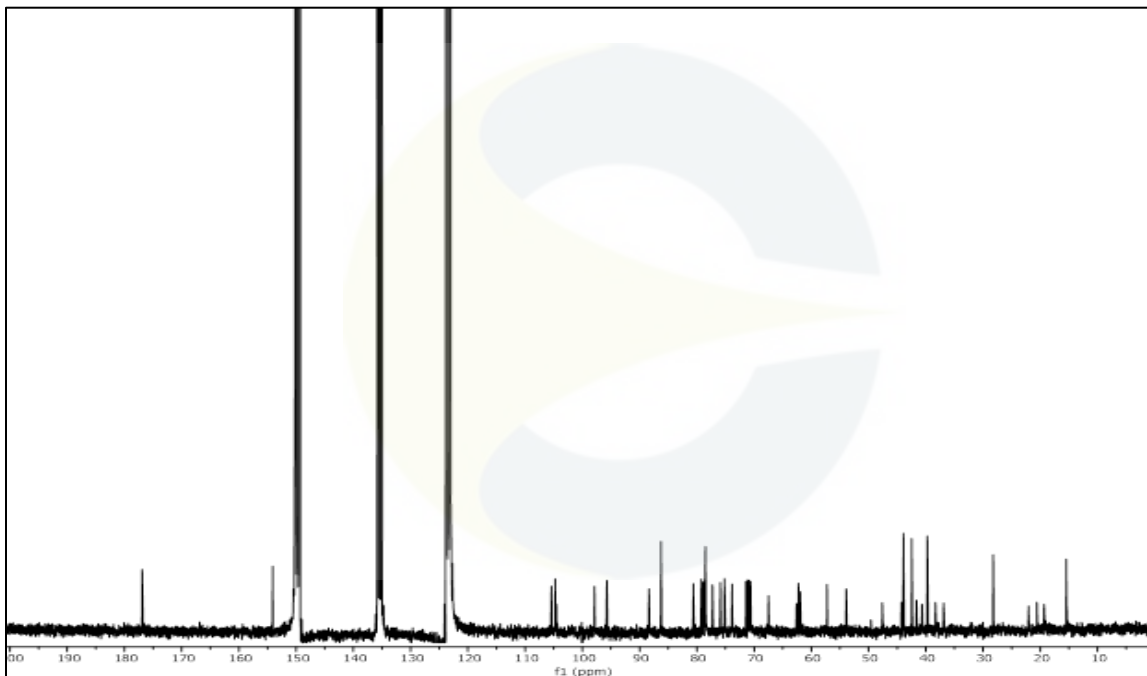
India Contact: Life Technologies (India) Pvt. Ltd.
 306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi - 110034 (INDIA).
 Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444
 Email: customerservice@lifetechindia.com Website: www.lifetechindia.com

MASS SPECTRUM OF REBAUDIOSIDE F (CDXP-19-00264)**¹H-NMR SPECTRUM OF REBAUDIOSIDE F (CDXP-19-00264) IN PYRIDINE-d₅**

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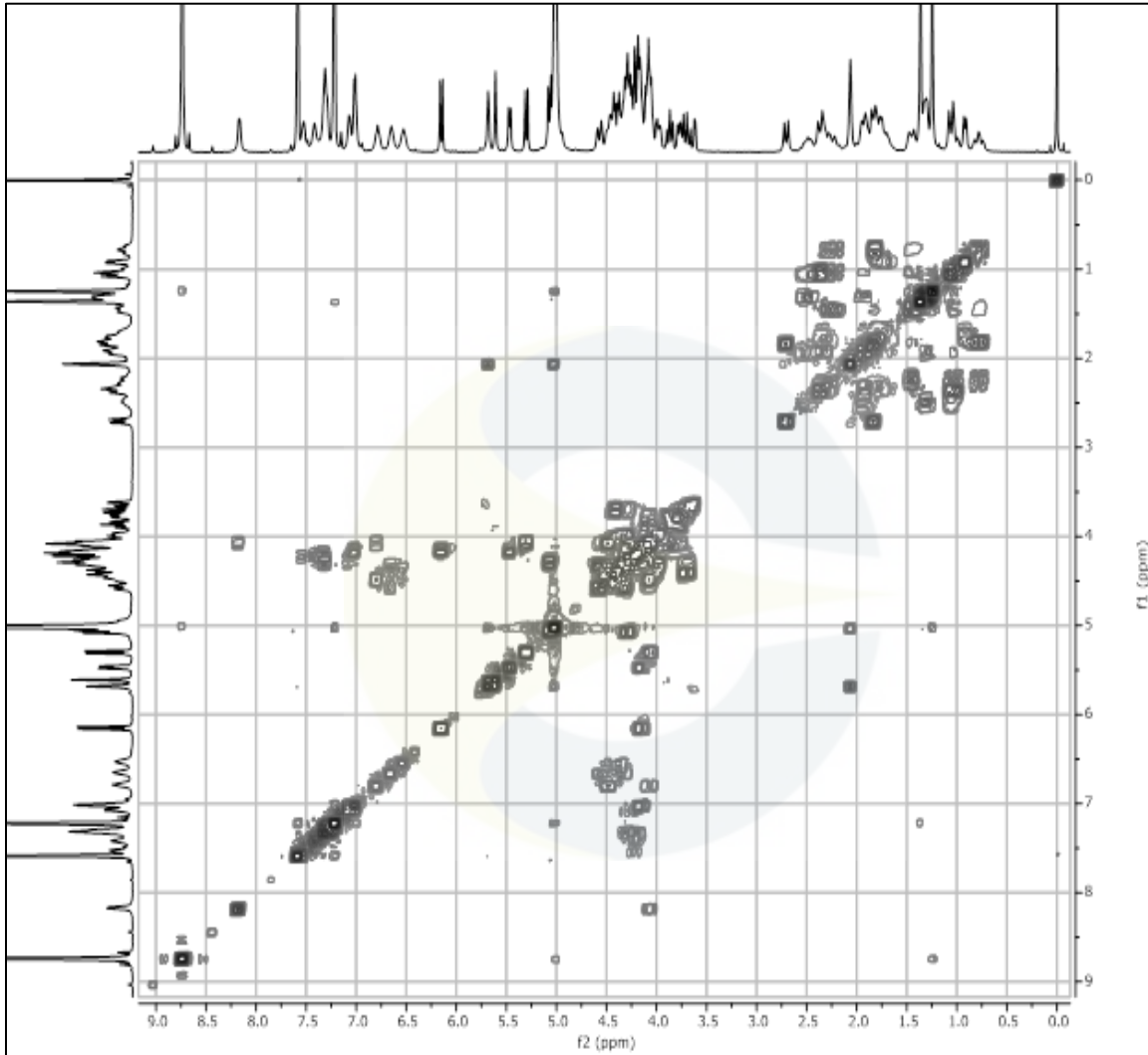
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^{13}C -NMR SPECTRUM OF REBAUDIOSIDE F (CDXP-19-00264) IN PYRIDINE- d_5 

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COSY-NMR SPECTRUM OF REBAUDIOSIDE F (CDXP-19-00264) IN PYRIDINE-*d*₅

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	05/07/2019	New report.
01	01/29/2020	Revision, updated KF (moisture) result.
02	03/03/2023	Revision—Updated HPLC results and chromatograms. Extended expiration date.

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