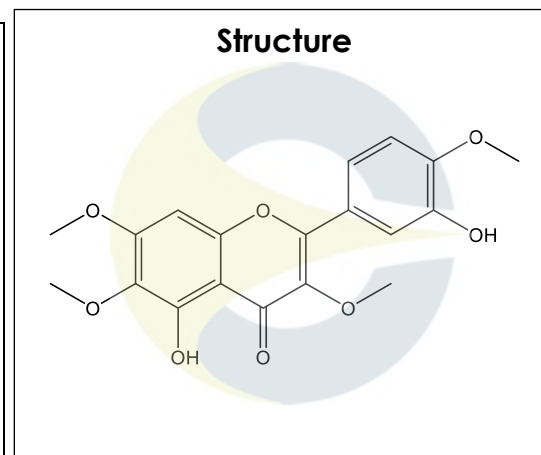


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<b>PRODUCT NAME</b>	Casticin
<b>PART NUMBER</b>	00003272
<b>STANDARD TYPE</b>	Primary (P)
<b>LOT NUMBER</b>	00003272-224
<b>REPORT NUMBER</b>	CDXA-RSS-9287-00
<b>SAMPLE NUMBER</b>	CDXP-21-00010
<b>DATE OF SAMPLE</b>	02/02/2021
<b>DATE OF REPORT</b>	03/11/2021



<b>CHEMICAL NAMES</b>	5-Hydroxy-2-(3-hydroxy-4-methoxyphenyl)-3,6,7-trimethoxy-4H-1-benzopyran-4-one; 3',5-Dihydroxy-3,4',6,7-tetramethoxyflavone; Vitexicarpin
<b>CHEMICAL FORMULA</b>	C <sub>19</sub> H <sub>18</sub> O <sub>8</sub>
<b>MOLECULAR WEIGHT (MW)</b>	374.34
<b>CHEMICAL FAMILY</b>	Flavonoids
<b>CAS NUMBER</b>	[479-91-4]
<b>EC#(EINECS)</b>	NA
<b>RTECS</b>	DJ3100174

**ANALYTICAL RESULTS**

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	99.5%
HPLC	0.700.10.2.METH22	≥ 90%	99.6%
NMR	0.700.12.4	Conforms to structure	Conforms to structure
Mass Spectrum	0.700.12.27	Conforms	Conforms
Residual Solvent*	USP <467>	NA	Ethanol: 892 ppm
Water	0.700.12.37	NA	ND
Appearance	NA	NA	Light yellow powder

\*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 99.5% IS BASED ON (100 - 0.1 SOLVENTS - 0.0 WATER) X 99.6% HPLC

**STORAGE CONDITIONS**

<b>STORAGE</b>	-20 °C in a dry place.
<b>EXPIRATION DATE</b>	02/2026 under the above conditions.

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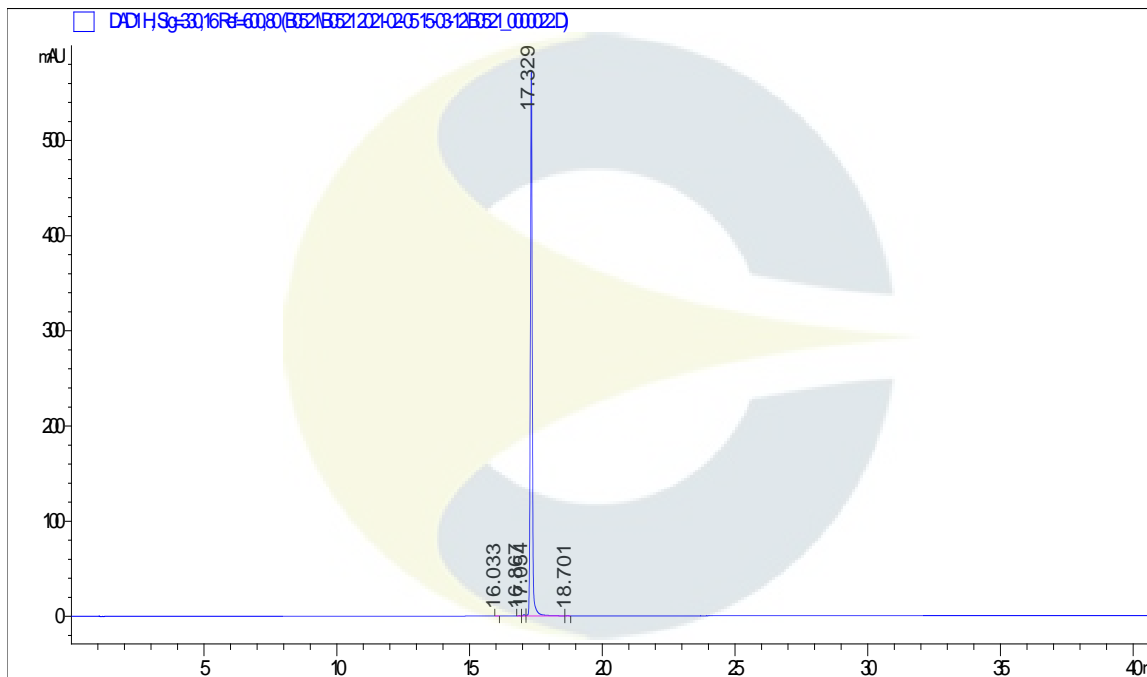
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**ANALYTICAL CONDITIONS**

<b>INSTRUMENT</b>	AGILENT 1260 HPLC UV-VIS (DAD) CONNECTED TO DIONEX CORONA VEO CHARGED AEROSOL DETECTOR (CAD); AB-SCIEX 6600 TRIPLE TOF
<b>COLUMN</b>	Phenomenex Luna C18(2) 150 x 2.00 mm, 5 µm particle size
<b>MOBILE PHASE</b>	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.
<b>COLUMN TEMP.</b>	60 °C
<b>FLOW RATE</b>	0.4 mL/minute
<b>INJECTION VOL.</b>	0.4 µL
<b>INJECTION CONC.</b>	1.0 mg/mL in Methanol
<b>DETECTION</b>	330 ± 8 nm

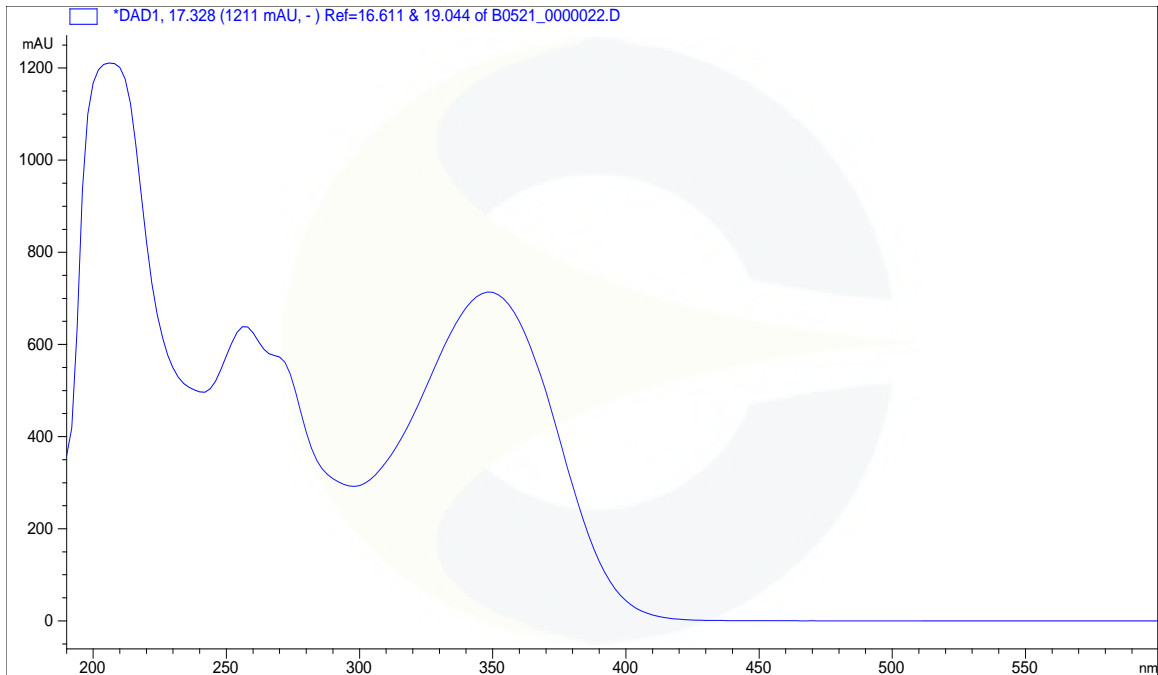
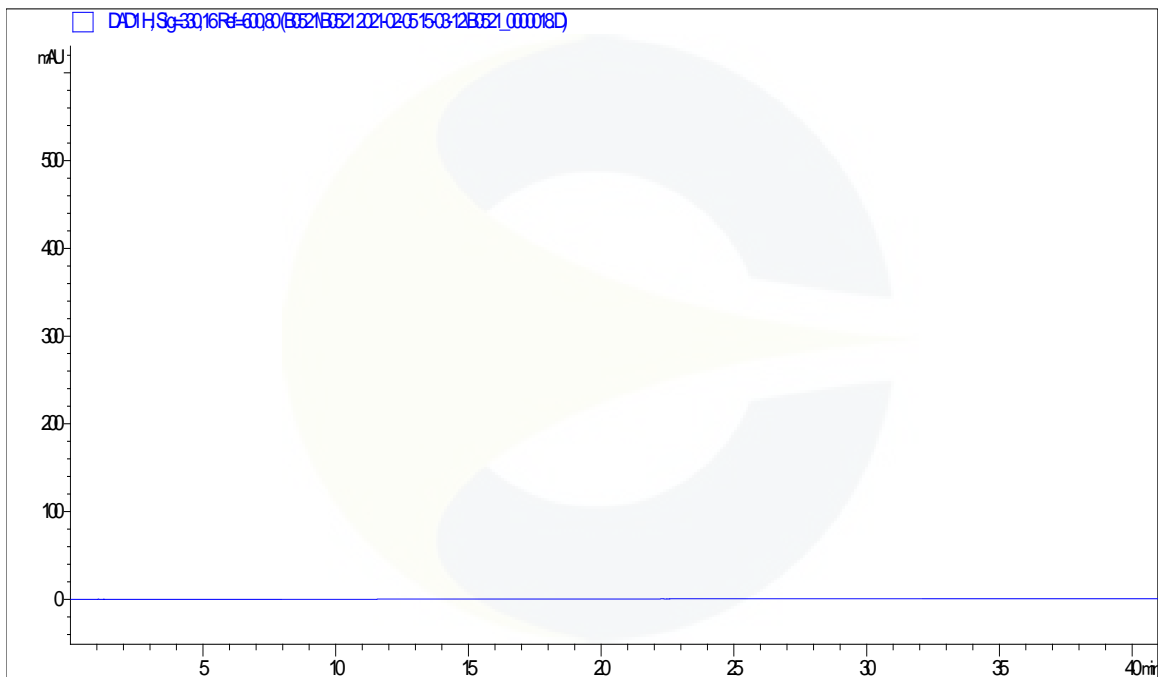
**HPLC CHROMATOGRAM OF CASTICIN (CDXP-21-00010)**



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 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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**UV SPECTRUM AT RT = 17.3 MINUTES**

**HPLC CHROMATOGRAM OF DILUENT BLANK**


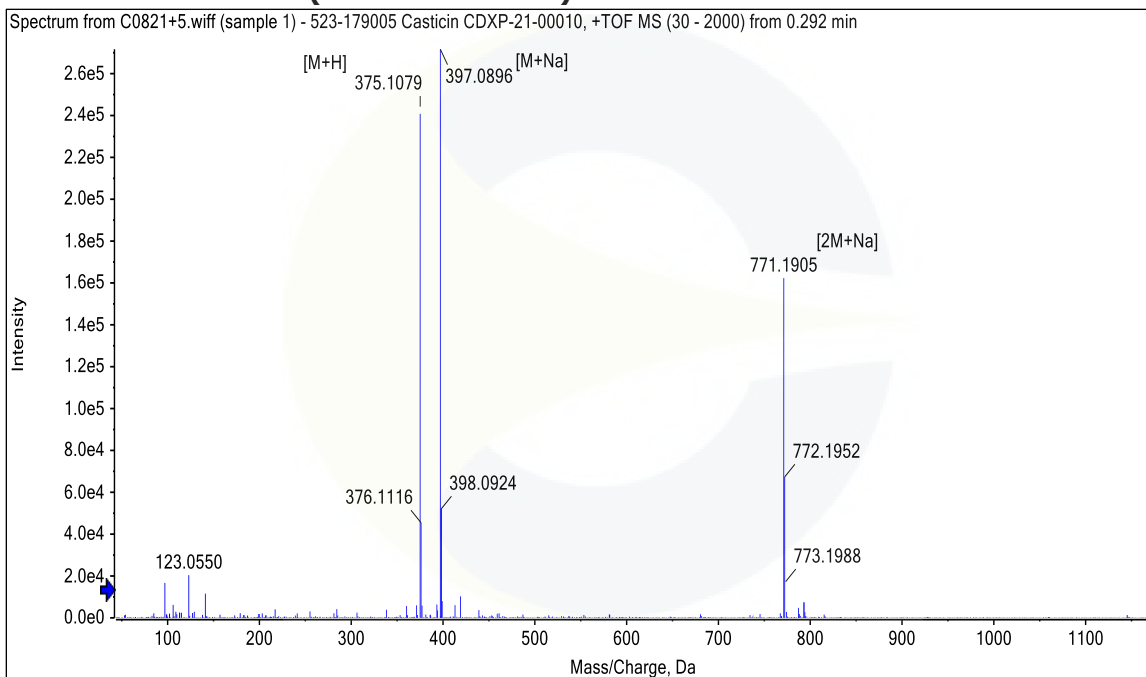
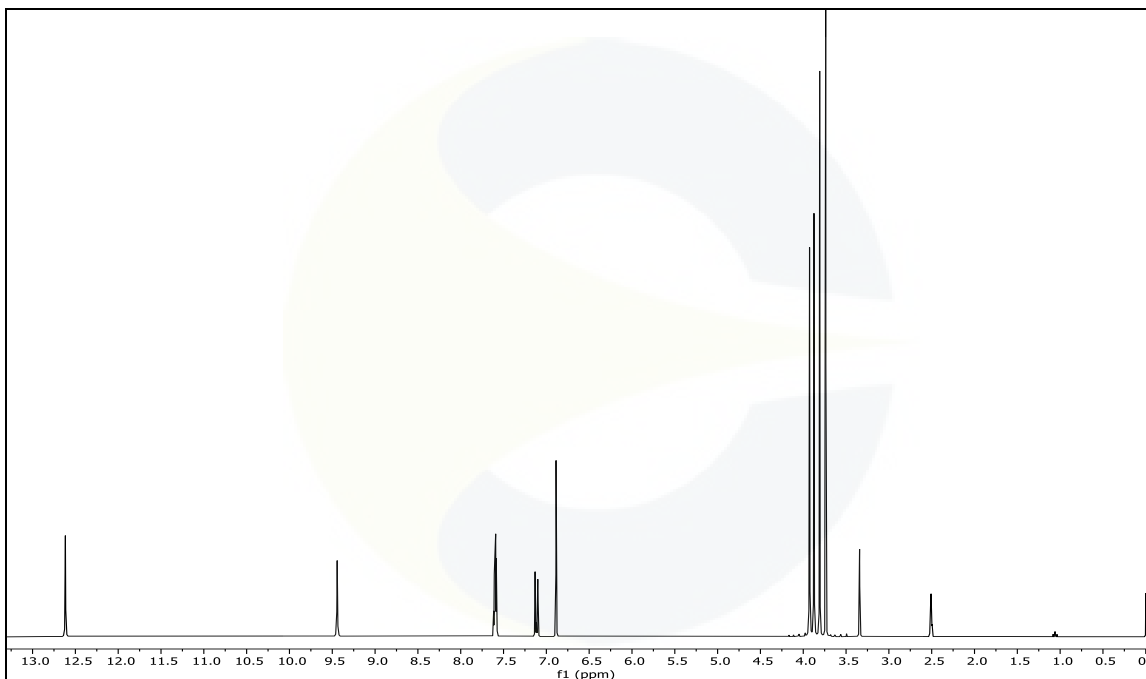
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**MASS SPECTRUM OF CASTICIN (CDXP-21-00010)**

**<sup>1</sup>H-NMR SPECTRUM OF CASTICIN (CDXP-21-00010) IN DMSO-d<sub>6</sub>**


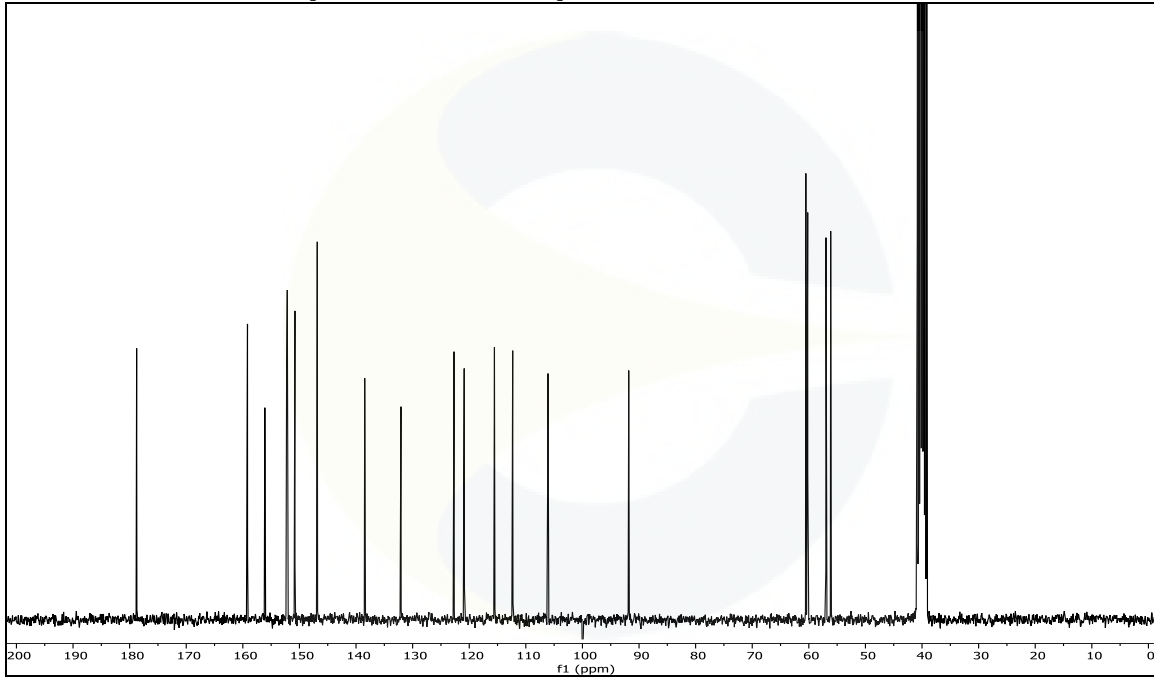
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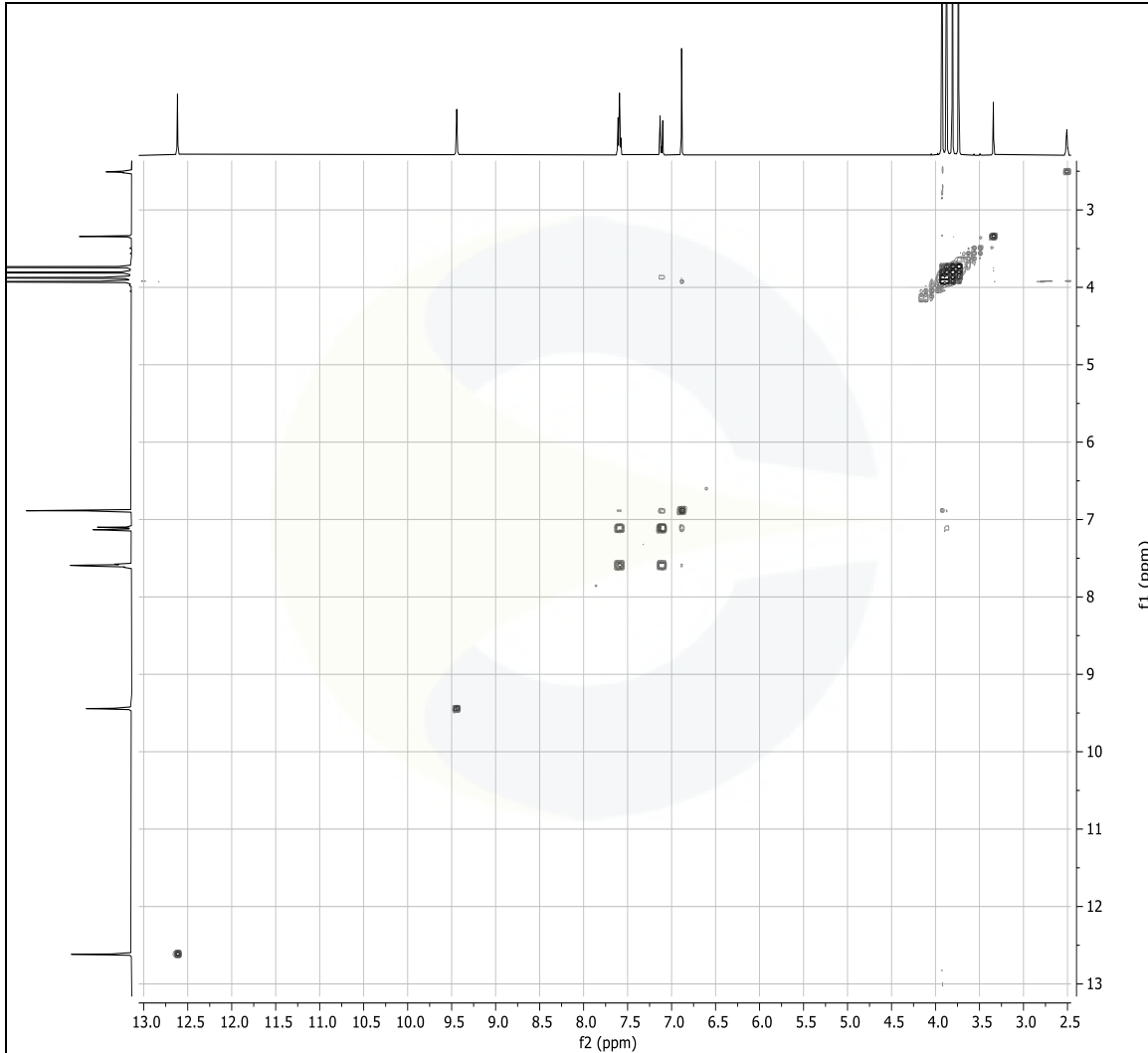
<sup>13</sup>C-NMR SPECTRUM CASTICIN (CDXP-21-00010) IN DMSO-d<sub>6</sub>



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**COSY-NMR SPECTRUM OF CASTICIN (CDXP-21-00010) IN DMSO-d<sub>6</sub>**

**REVISION HISTORY**

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	03/11/2021	New report

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