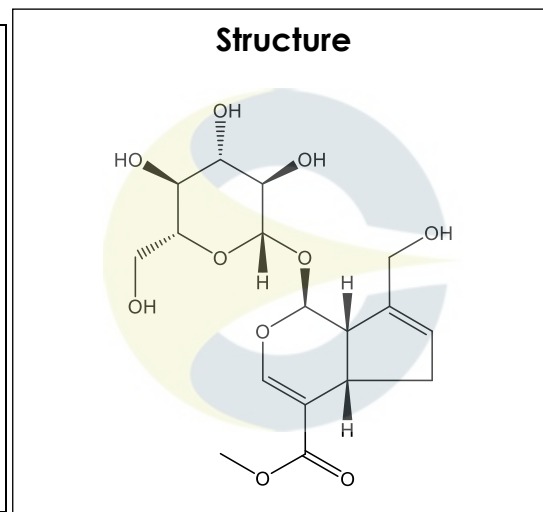


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<b>PRODUCT NAME</b>	Geniposide
<b>PART NUMBER</b>	00007070
<b>STANDARD TYPE</b>	Primary (P)
<b>LOT NUMBER</b>	00007070-113
<b>REPORT NUMBER</b>	CDXA-RSS-5384-02
<b>SAMPLE NUMBER</b>	CDXP-13-0544
<b>DATE OF SAMPLE</b>	01/25/2013
<b>DATE OF RE-EVALUATION</b>	03/21/2017 (1 <sup>st</sup> ); 04/16/2021 (2 <sup>nd</sup> )
<b>DATE OF REPORT</b>	05/07/2021



<b>CHEMICAL NAMES</b>	(1S,4aS,7aS)-1-(β-D-Glucopyranosyloxy)-1,4a,5,7a-tetrahydro-7-(hydroxymethyl)-cyclopenta[c]pyran-4-carboxylic acid methyl ester
<b>CHEMICAL FORMULA</b>	C <sub>17</sub> H <sub>24</sub> O <sub>10</sub>
<b>MOLECULAR WEIGHT (MW)</b>	388.37
<b>CHEMICAL FAMILY</b>	Iridoids
<b>CAS NUMBER</b>	[24512-63-8]
<b>EC#(EINECS)</b>	683-175-1
<b>RTECS</b>	GY5825600

**ANALYTICAL RESULTS**

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	96.6%
HPLC	0.700.10.2.METH22	≥ 90%	98.9%
NMR	99.1-CD-1.0-000122	Conforms to structure	Conforms to structure
Mass Spectrum	Direct Infusion, ESI (-)	Conforms	Conforms
Residual Solvent	99.1-CD-6.0-000115	NA	Ethanol – 0.1%
Water	0.700.12.37	NA	2.2%
Appearance	NA	NA	White powder

ADJUSTED PURITY: 96.6% IS BASED ON (100 - 0.1 SOLVENTS - 2.2 WATER) X 98.9% HPLC

**STORAGE CONDITIONS**

<b>STORAGE</b>	Room Temperature in a dry place.
<b>EXPIRATION DATE</b>	04/2026 under the above conditions.

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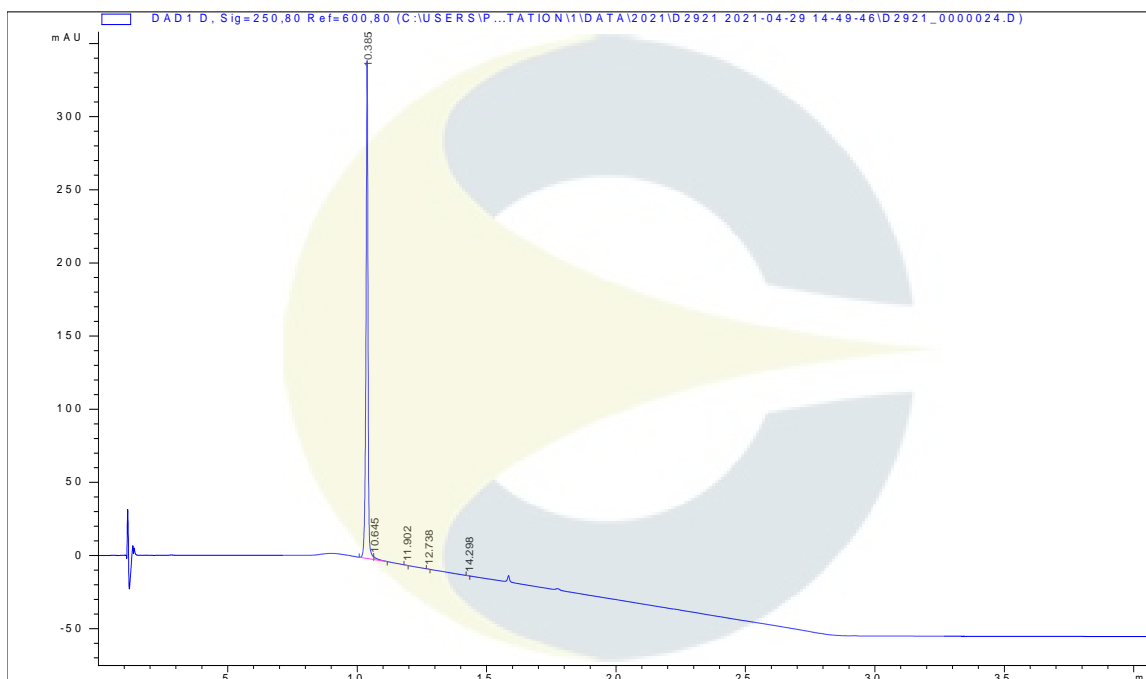
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### ANALYTICAL CONDITIONS

<b>INSTRUMENT</b>	AGILENT 1260 HPLC UV-VIS (DAD); AGILENT 6510 QTOF
<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.
<b>COLUMN TEMP.</b>	60 °C
<b>FLOW RATE</b>	0.4 mL/minute
<b>INJECTION VOL.</b>	1.0 µL
<b>INJECTION CONC.</b>	1.0 mg/mL in Methanol
<b>DETECTION</b>	250 ± 40 nm

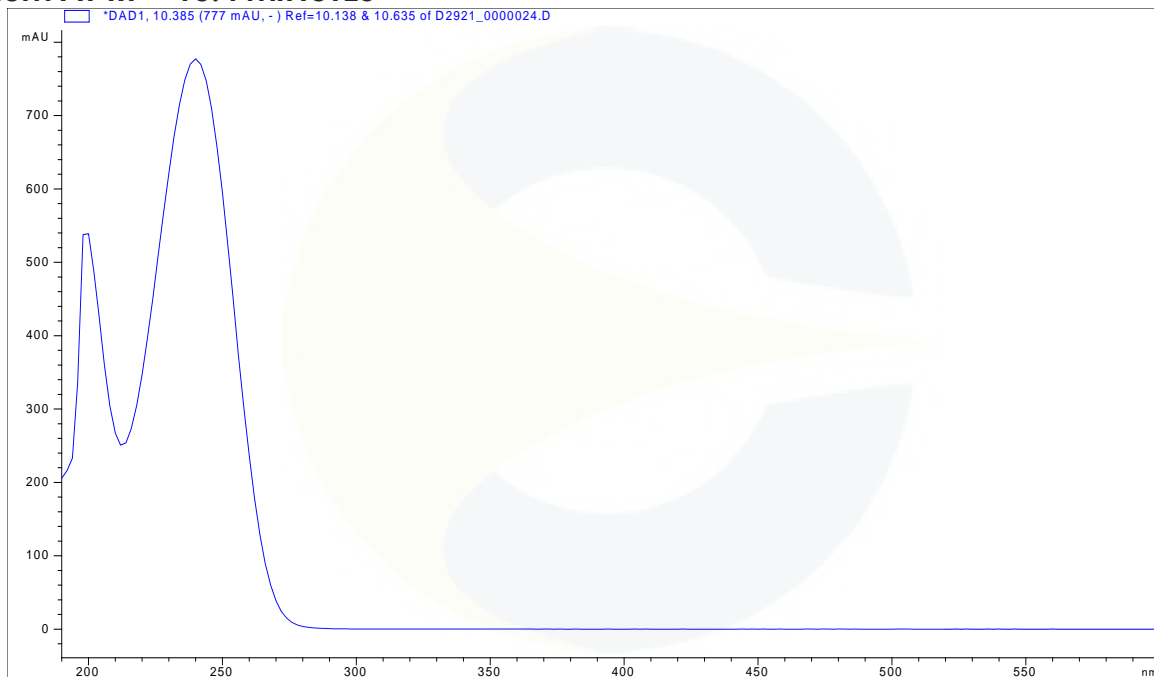
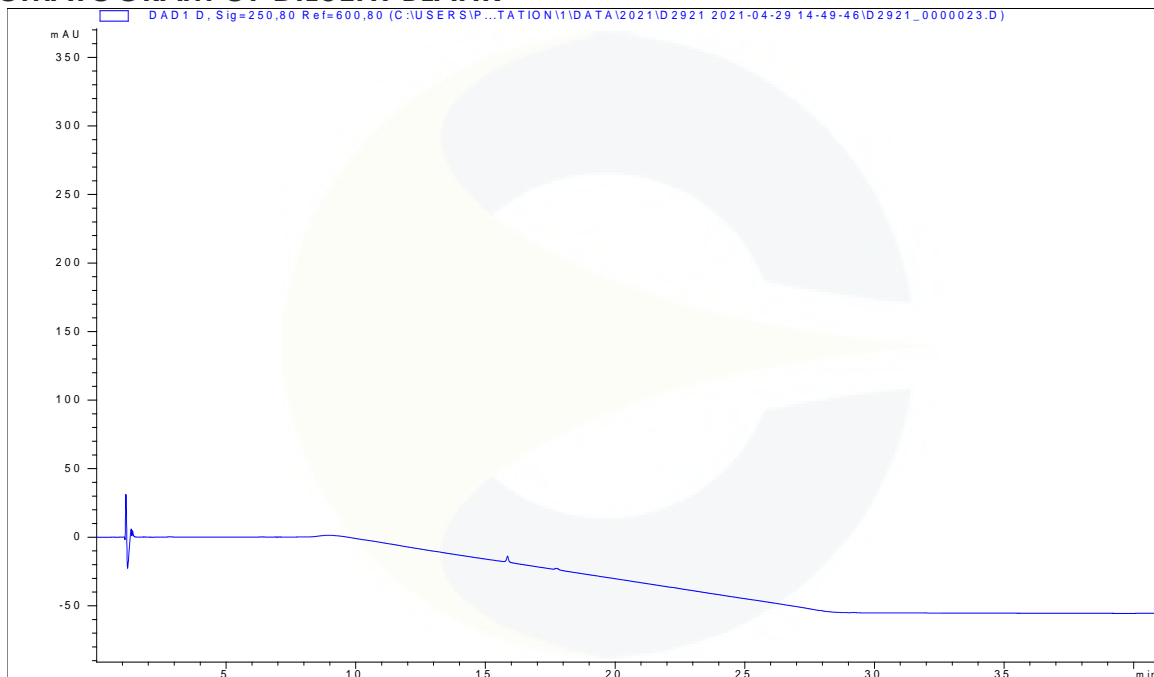
### HPLC CHROMATOGRAM OF GENIPOSIDE (CDXP-13-0544)



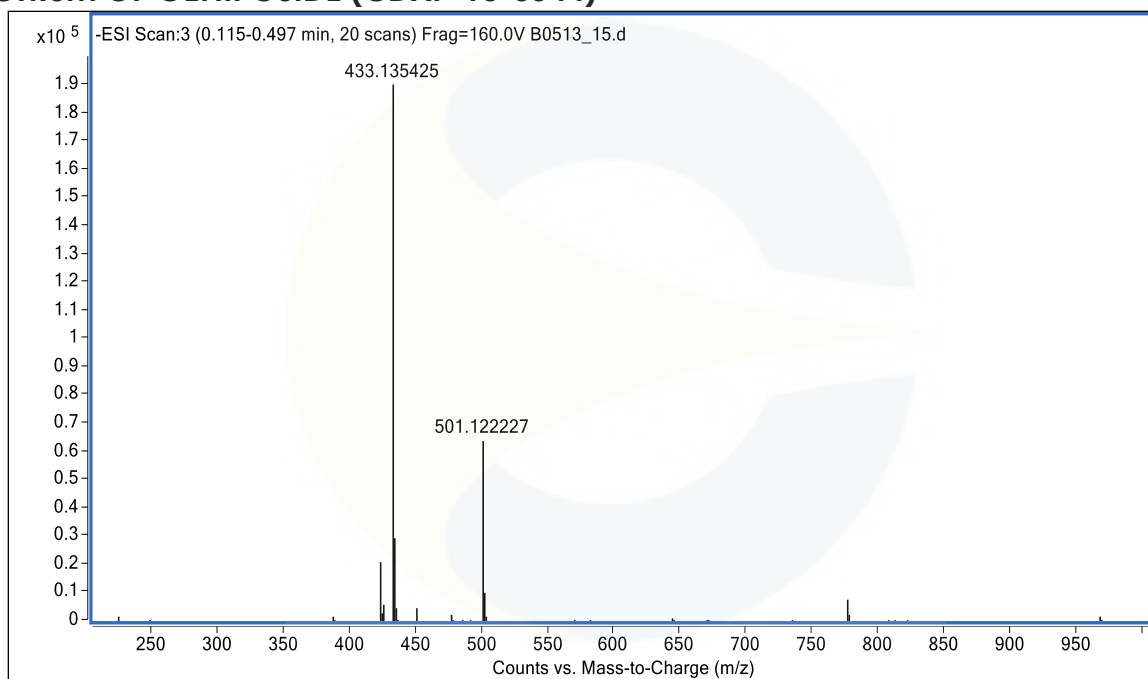
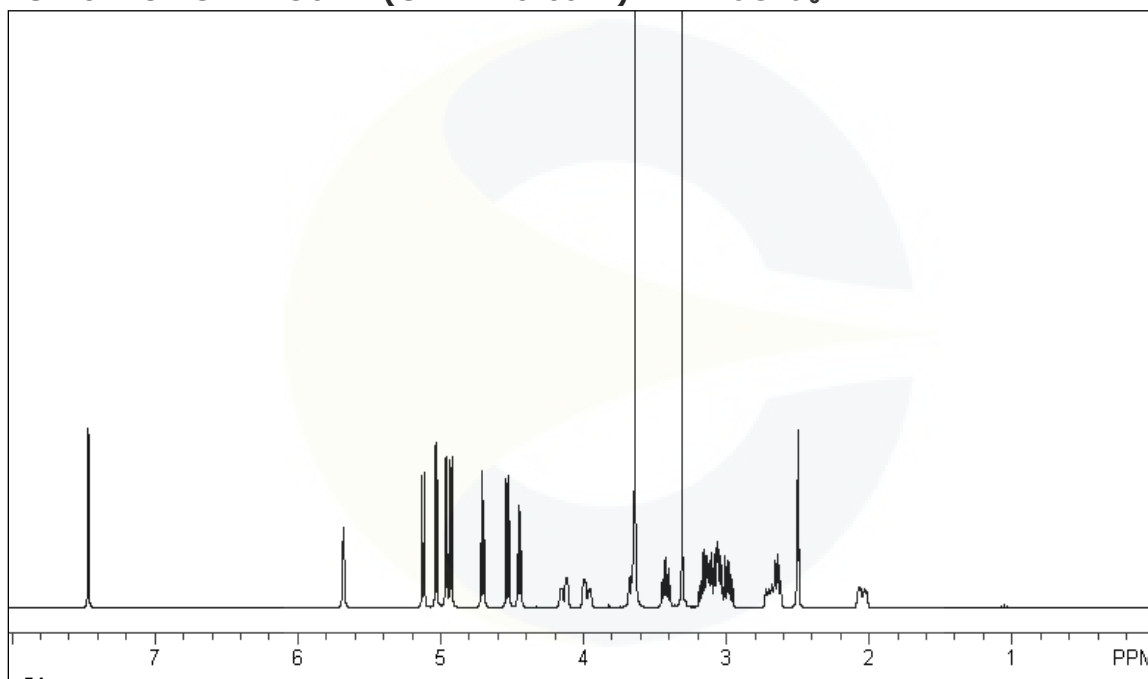
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**UV SPECTRUM AT RT = 10.4 MINUTES****HPLC CHROMATOGRAM OF DILUENT BLANK**

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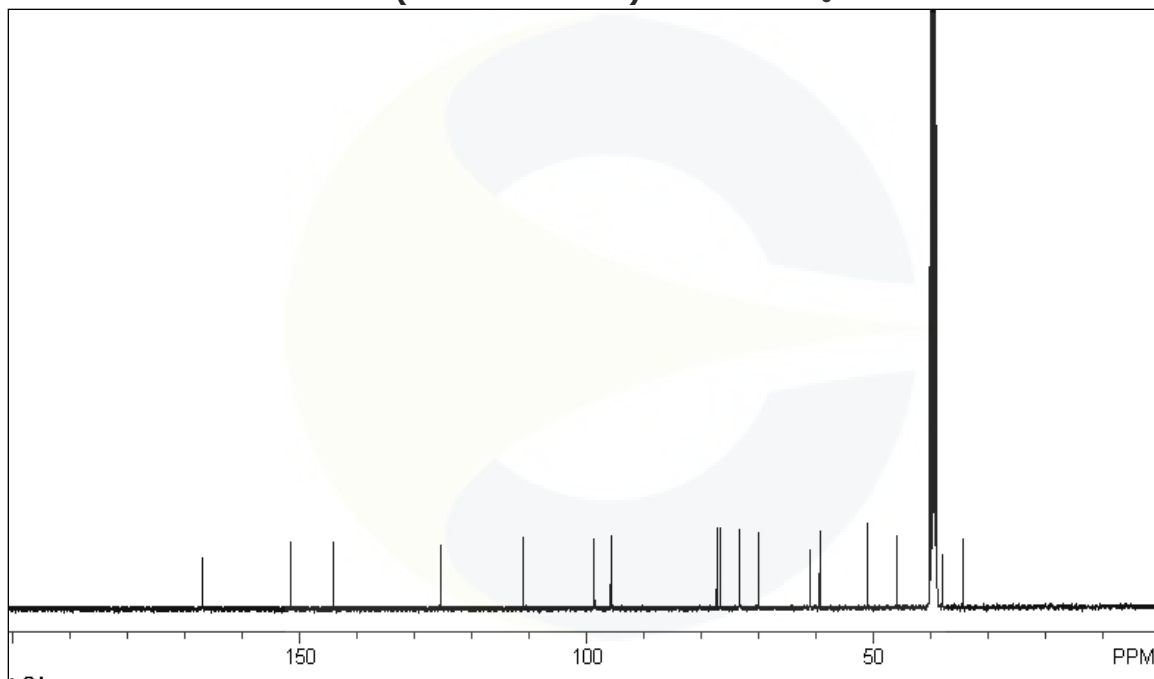
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**MASS SPECTRUM OF GENIPOSIDE (CDXP-13-0544)**

**<sup>1</sup>H-NMR SPECTRUM OF GENIPOSIDE (CDXP-13-0544) IN DMSO-d<sub>6</sub>**


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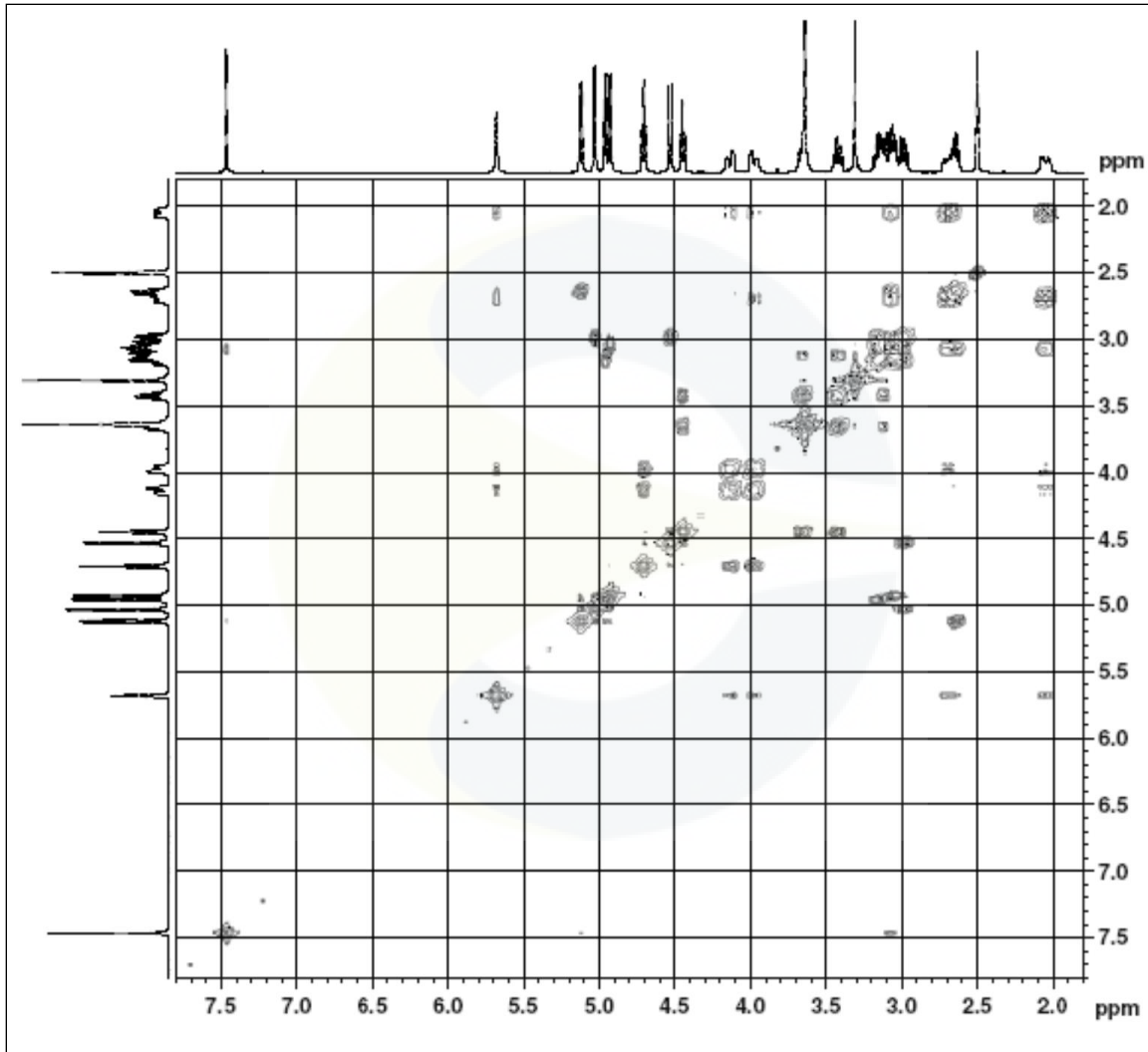
**<sup>13</sup>C-NMR SPECTRUM OF GENIPOSIDE (CDXP-13-0544) IN DMSO-d<sub>6</sub>**



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**COSY-NMR SPECTRUM OF GENIPOSIDE (CDXP-13-0544) IN DMSO-*d*<sub>6</sub>**

**REVISION HISTORY**

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	02/08/2013	New report
01	04/05/2017	Passed re-evaluation by HPLC, KF. Updated expiration date, analytical conditions, chromatograms, and results.
02	05/07/2021	Passed re-evaluation by HPLC, KF. Updated expiration date, analytical conditions, chromatograms, and analytical results. Added EC# and RTECS.

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