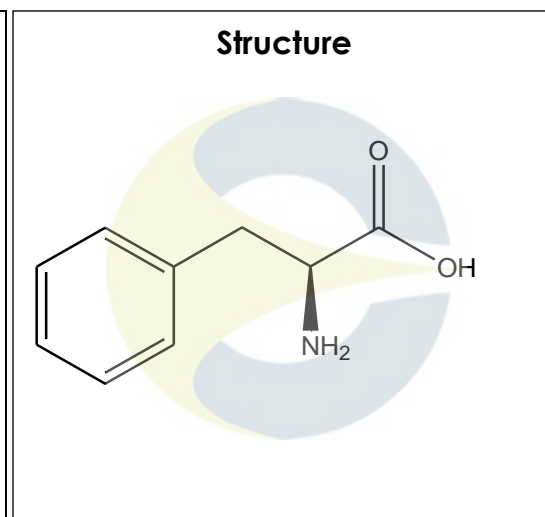


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<b>PRODUCT NAME</b>	L-Phenylalanine
<b>PART NUMBER</b>	00016503
<b>STANDARD TYPE</b>	Primary (P)
<b>LOT NUMBER</b>	00016503-1596
<b>REPORT NUMBER</b>	CDXA-RSS-1381-02
<b>SAMPLE NUMBER</b>	CDXA-06-1596
<b>DATE OF SAMPLE</b>	10/20/2006
<b>DATE OF RE-EVALUATION</b>	02/23/2011 (1 <sup>st</sup> ); 08/24/2015 (2 <sup>nd</sup> ); 04/08/2020 (3 <sup>rd</sup> )
<b>DATE OF REPORT</b>	05/20/2020



<b>CHEMICAL NAMES</b>	(S)-2-Amino-3-phenylpropanoic acid; 3-Phenyl-L-alanine; (S)-Phenylalanine; (S)- $\alpha$ -Aminohydrocinnamic acid; $\beta$ -Phenyl-L-alanine
<b>CHEMICAL FORMULA</b>	C <sub>9</sub> H <sub>11</sub> NO <sub>2</sub>
<b>MOLECULAR WEIGHT (MW)</b>	165.19
<b>CHEMICAL FAMILY</b>	Amino acids
<b>CAS NUMBER</b>	[63-91-2]
<b>EC#(EINECS)</b>	200-568-1
<b>RTECS</b>	AY7535000

**ANALYTICAL RESULTS**

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	NA	99.9%
HPLC	0.700.10.2.METH 46	NA	99.9%
NMR	NA	Conforms to structure	Conforms to structure
Mass Spectrum	Direct Infusion, ESI (+/-)	Conforms	Conforms
Residual Solvent*	CDXA-AM-001-04	NA	ND
Water	0.700.12.37	NA	ND
Appearance	NA	NA	White powder

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

ADJUSTED PURITY: 99.9% IS BASED ON (100 - 0.0 SOLVENTS - 0.0 WATER) X 99.9% HPLC

**STORAGE CONDITIONS**

<b>STORAGE</b>	Room Temperature in a dry place.
<b>EXPIRATION DATE</b>	04/2025 under the above conditions.

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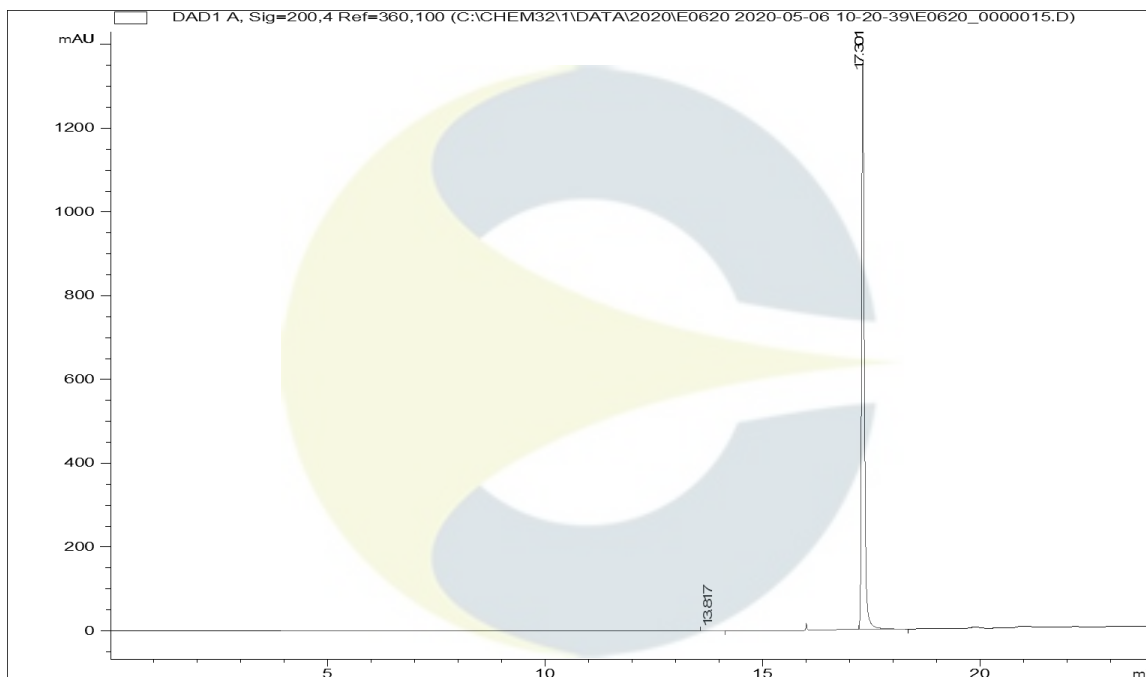
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### ANALYTICAL CONDITIONS

<b>INSTRUMENT</b>	AGILENT 1260 HPLC UV-VIS (DAD); FINNIGAN LCQ-DECA
<b>COLUMN</b>	Phenomenex Synergi Hydro-RP 250 x 4.6 mm, 4 µm particle size
<b>MOBILE PHASE</b>	A – 10 mM KH <sub>2</sub> PO <sub>4</sub> (aq) pH 2.9; B - Acetonitrile Isocratic 0% B for 10 minutes, then increasing to 30% B over 10 minutes. Hold at 30% B for 4 minutes.
<b>COLUMN TEMP.</b>	22 °C
<b>FLOW RATE</b>	1.0 mL/minute
<b>INJECTION VOL.</b>	1.0 µL
<b>INJECTION CONC.</b>	1.6 mg/mL in water
<b>DETECTION</b>	200 ± 2 nm

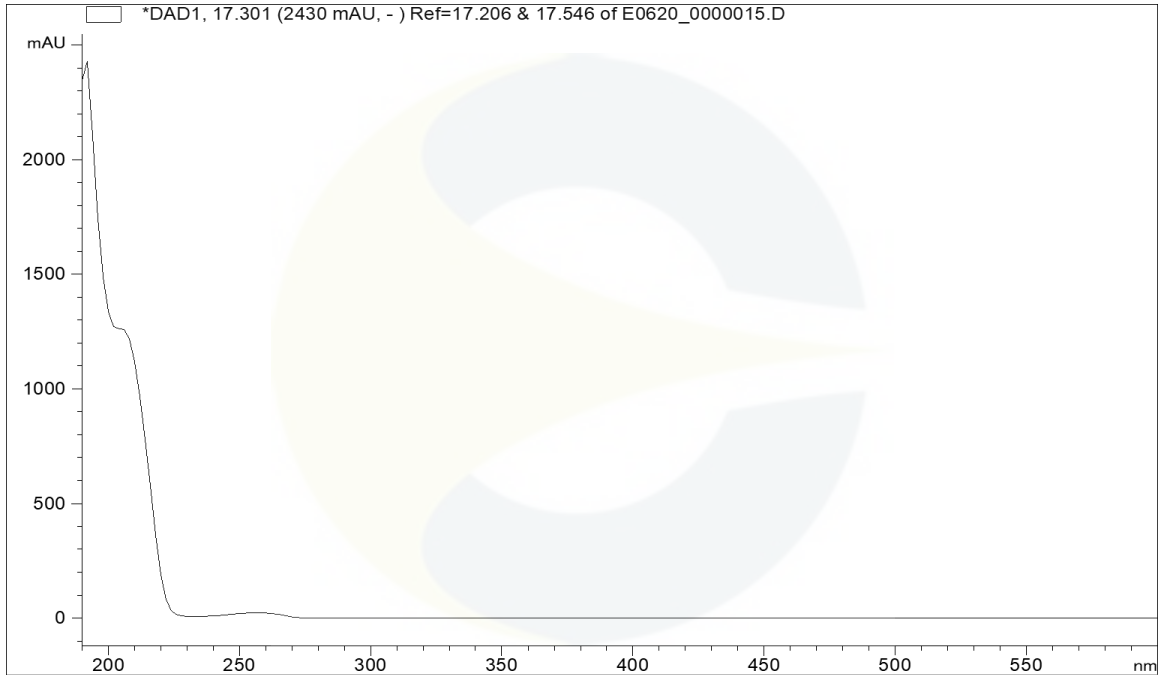
### HPLC CHROMATOGRAM OF L-PHENYLALANINE (CDXA-06-1596)



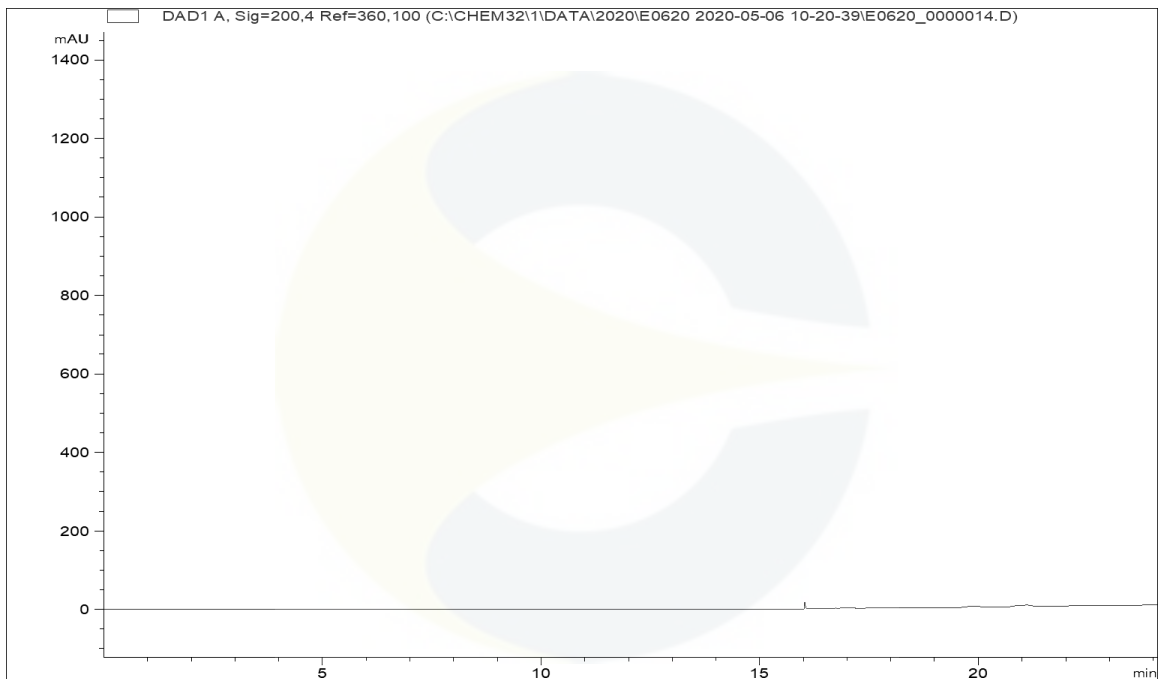
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### UV SPECTRUM AT RT = 17.3 MINUTES



### HPLC CHROMATOGRAM OF DILUENT BLANK



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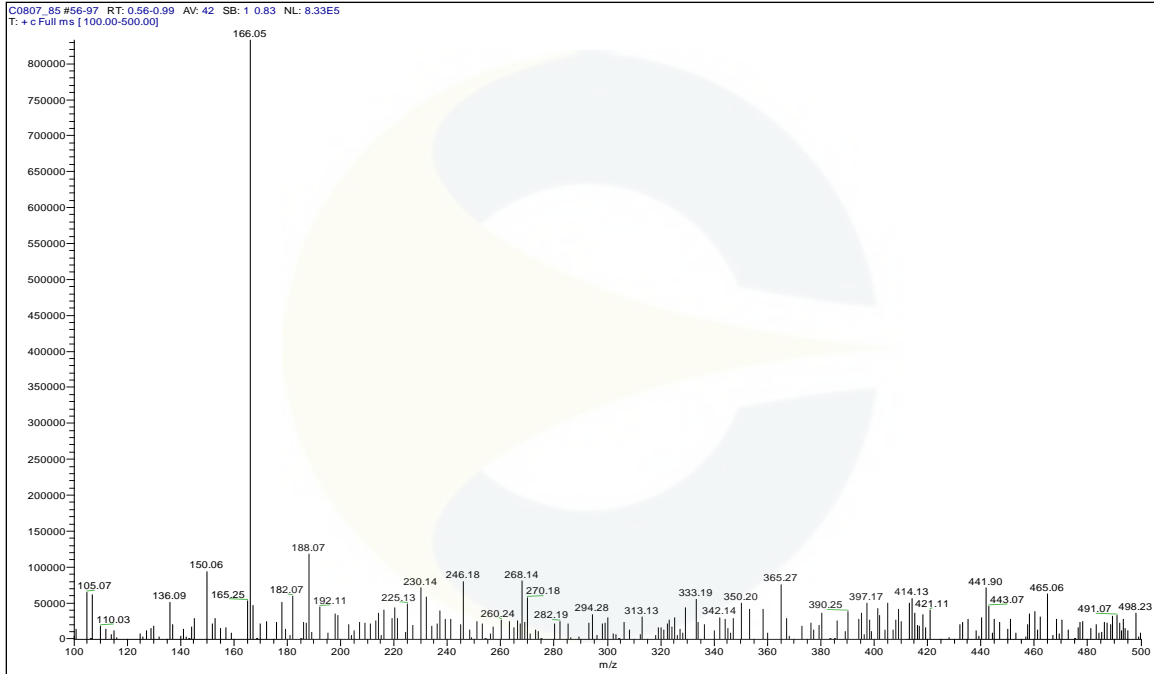
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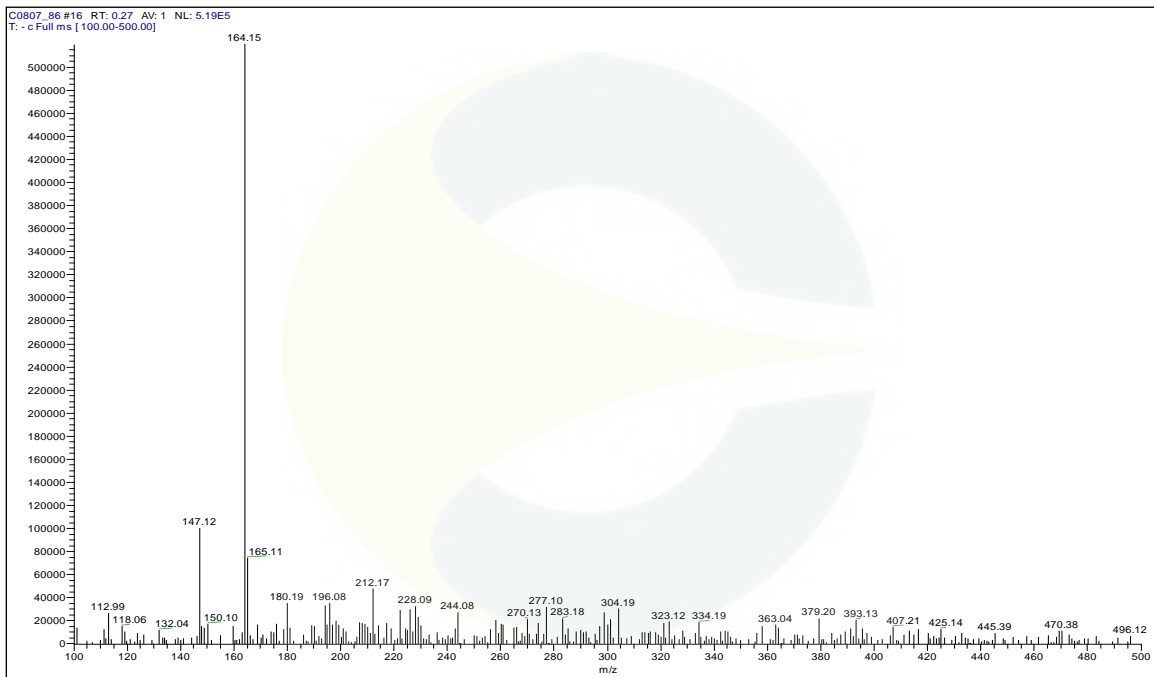
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**MASS SPECTRUM OF L-PHENYLALANINE (CDXA-06-1596) -ESI POSITIVE**



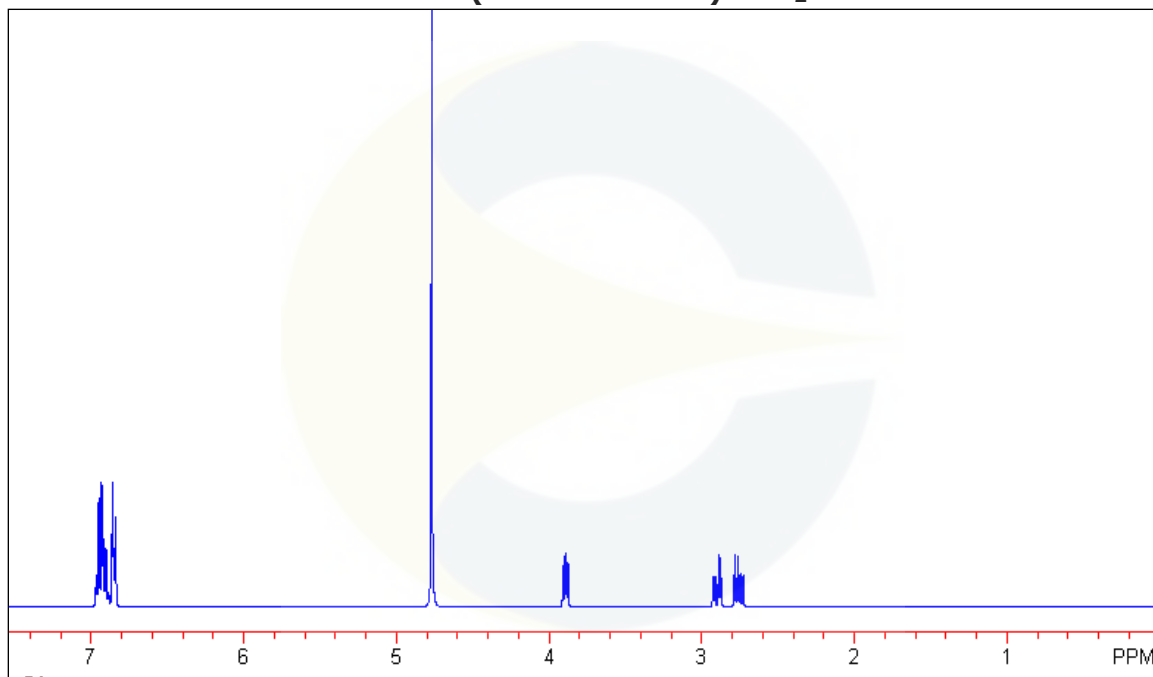
**MASS SPECTRUM OF L-PHENYLALANINE (CDXA-06-1596) -ESI NEGATIVE**



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Email: [customerservice@lifetechindia.com](mailto:customerservice@lifetechindia.com) Website: [www.lifetechindia.com](http://www.lifetechindia.com)

**<sup>1</sup>H-NMR SPECTRUM OF L-PHENYLALANINE (CDXA-06-1596) IN D<sub>2</sub>O**

**REVISION HISTORY**

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	08/08/2011	New report and first re-evaluation and reformat
01	09/23/2015	Passed second re-evaluation by HPLC, KF. Updated expiration date, chemical names, and melting point.
02	05/20/2020	Passed third re-evaluation by HPLC, KF. Updated expiration date, analytical method, conditions, chromatograms, and results. Removed melting point.

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