



SPECIMEN

Certificate of Analysis

For Laboratory Use Only

PRODUCT NAME	L-Methionine	Structure
PART NUMBER	00013255	0
STANDARD TYPE	Primary (P)	l l l
LOT NUMBER	00013255-00349	лан са
REPORT NUMBER	CDXA-RSS-7995-00	on
SAMPLE NUMBER	CDXP-18-00349	NH ₂
DATE OF SAMPLE	04/13/2018	
DATE OF REPORT	05/16/2018	
CHEMICAL NAMES	(S)-2-Amino-4-(methylthio)butanoic acid; Cymethion; S-Methionine; L-α-Amino-γ-methylthiobutyric acid; S-Methyl-L-homocysteine	
CHEMICAL FORMULA	C5H11NO2S	
MOLECULAR WEIGHT (MW)	149.21	
CHEMICAL FAMILY	Amino acids	
CAS NUMBER	[63-68-3]	
EC#(EINECS)	200-562-9	
RTECS	PD0457000	

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	NA	99.4%
HPLC	CDXA-CPM-375-00	NA	99.5%
NMR	99.1-04-2.0-000122	Conforms to structure	Conforms to structure
Mass Spectrum	99.1-04-2.0-000126	Conforms	Conforms
Residual Solvent	99.1-CDXA-3.0-000621	NA	ND
Water	99.1-04-9.0-000094	NA	0.1%
Appearance	NA	NA	White Powder

99.4% IS BASED ON (100 - 0.1 WATER - 0.0 SOLVENTS) X 99.5% HPLC ADJUSTED PURITY:

STORAGE CONDITIONS

STORAGE

Room Temperature in a dry place.

EXPIRATION DATE

04/2023 under the above conditions.

This document is the property of ChromaDex, Inc. and/or its relevant affiliates and contains confidential and proprietary material for the sole use of the intended recipient(s). Any review, use, distribution or disclosure by or to others is strictly prohibited.

10005 MUIRLANDS BLVD., SUITE G, IRVINE, CA 92618 | T: +1 949-419-0288 | F: +1 949-419-0294 | WWW.CHROMADEX.COM

India Contact:

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





SPECIMEN

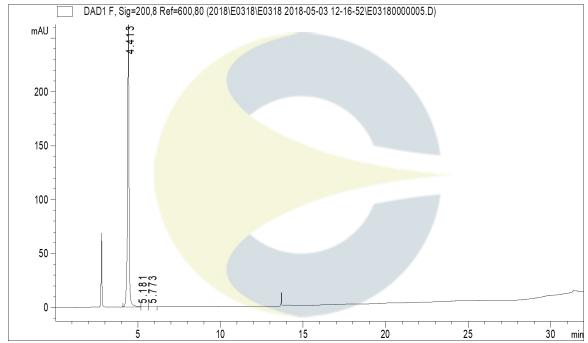
Certificate of Analysis

For Laboratory Use Only

ANALYTICAL CONDITIONS

INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD); AB-SCIEX 6600 TRIPLE TOF
COLUMN	Phenomenex Synergi Hydro-RP 250 x 4.6 mm, 4 µm particle size
MOBILE PHASE	A – 10 mM Potassium phosphate in Ultrapure water, pH 2.9; B - Acetonitrile Isocratic 0% B for 8 minutes, increasing to 20% B over 16 minutes, increasing to 40% B over 4 minutes and holding for 2 minutes. Decrease to 0% B over 2 minutes.
COLUMN TEMP.	30 °C
FLOW RATE	1.0 mL/minute
INJECTION VOL.	2.0 μL
INJECTION CONC.	1.0 mg/mL in 0.05M HCI
DETECTION	200 ± 4 nm

HPLC CHROMATOGRAM OF L-METHIONINE (CDXP-18-00349)



This document is the property of ChromaDex, Inc. and/or its relevant affiliates and contains confidential and proprietary material for the sole use of the intended recipient(s). Any review, use, distribution or disclosure by or to others is strictly prohibited.

India Contact:

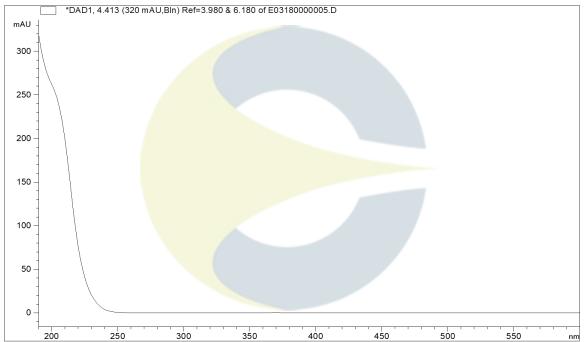




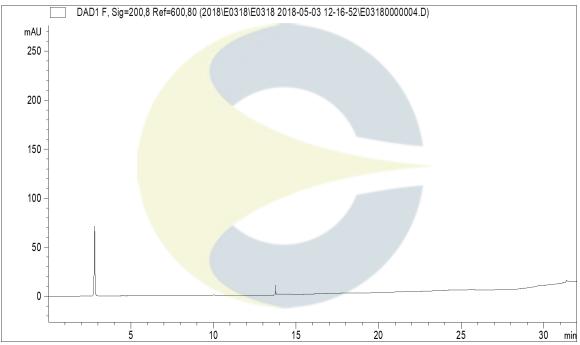
SPECIMEN

Certificate of Analysis

UV SPECTRUM AT RT = 4.4 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK



This document is the property of ChromaDex, Inc. and/or its relevant affiliates and contains confidential and proprietary material for the sole use of the intended recipient(s). Any review, use, distribution or disclosure by or to others is strictly prohibited.

10005 MUIRLANDS BLVD., SUITE G, IRVINE, CA 92618 | T: +1 949-419-0288 | F: +1 949-419-0294 | WWW.CHROMADEX.COM

India Contact:

Lite 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

For Laboratory Use Only



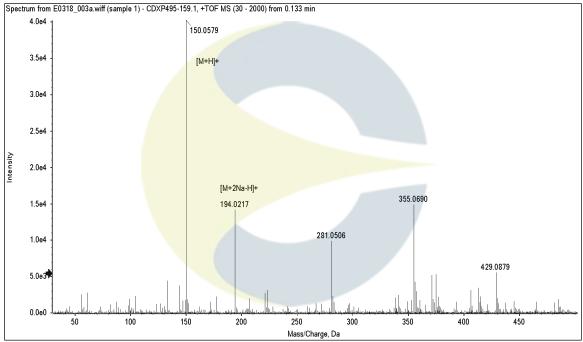


SPECIMEN

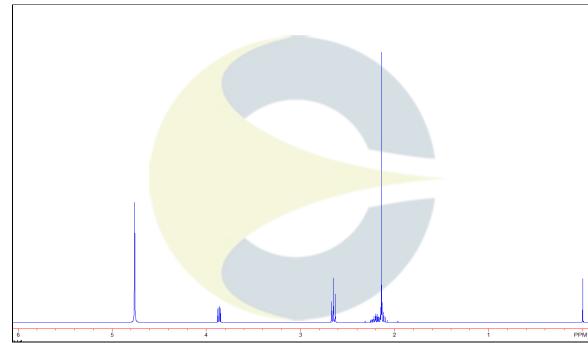
Certificate of Analysis

For Laboratory Use Only

MASS SPECTRUM OF L-METHIONINE (CDXP-18-00349)



¹H-NMR SPECTRUM OF L-METHIONINE (CDXP-18-00349) IN D₂O



This document is the property of ChromaDex, Inc. and/or its relevant affiliates and contains confidential and proprietary material for the sole use of the intended recipient(s). Any review, use, distribution or disclosure by or to others is strictly prohibited.

10005 MUIRLANDS BLVD., SUITE G, IRVINE, CA 92618 | T: +1 949-419-0288 | F: +1 949-419-0294 | WWW.CHROMADEX.COM

India Contact:

Lite 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





SPECIMEN

Certificate of Analysis

For Laboratory Use Only

¹³C-NMR SPECTRUM L-METHIONINE (CDXP-18-00349) IN D₂O

This document is the property of ChromaDex, Inc. and/or its relevant affiliates and contains confidential and proprietary material for the sole use of the intended recipient(s). Any review, use, distribution or disclosure by or to others is strictly prohibited.

India Contact:



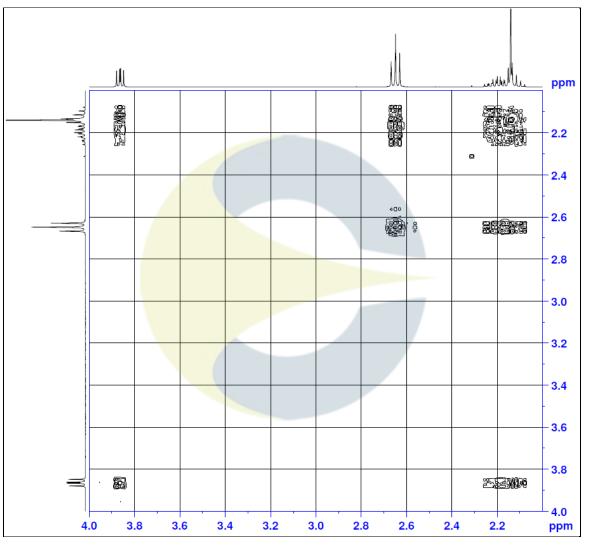


SPECIMEN

For Laboratory Use Only

Certificate of Analysis

COSY-NMR SPECTRUM OF L-METHIONINE (CDXP-18-00349) IN D₂O



REVISION HISTORY

Revision HistoryDate of RevisionDocument/Changes0005/16/2018New report

This document is the property of ChromaDex, Inc. and/or its relevant affiliates and contains confidential and proprietary material for the sole use of the intended recipient(s). Any review, use, distribution or disclosure by or to others is strictly prohibited.

10005 MUIRLANDS BLVD., SUITE G, IRVINE, CA 92618 | T: +1 949-419-0288 | F: +1 949-419-0294 | WWW.CHROMADEX.COM

India Contact:

206, 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