





Certificate of Analysis

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PRODUCT NAME Vitamin H

PART NUMBER 00022809

STANDARD TYPE Primary (P)

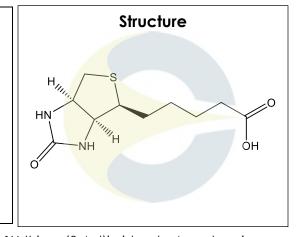
LOT NUMBER 00022809-646

REPORT NUMBER CDXA-RSS-9242-00

SAMPLE NUMBER CDXP-20-00850

DATE OF SAMPLE 12/03/2020

DATE OF REPORT 01/13/2021



CHEMICAL NAMES Biotin; (3aS,4S,6aR)-Hexahydro-2-oxo-1H-thieno(3,4-d)imidazole-4-pentanoic

acid; D-Biotin; Coenzyme R; Vitamin B7

CHEMICAL FORMULA $C_{10}H_{16}N_2O_3S$

MOLECULAR WEIGHT (MW) 244.31

CHEMICAL FAMILY Vitamins

CAS NUMBER [58-85-5]

EC#(EINECS) 200-399-3

RTECS XJ9088200

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	98.3%
HPLC	0.700.10.2.METH 161	≥ 90%	98.3%
NMR	0.700.12.4	Conforms to structure	Conforms to structure
Mass Spectrum	0.700.12.27	Conforms	Conforms
Residual Solvent*	USP <467>	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: 98.3% IS BASED ON (100 - 0.0 SOLVENTS - 0.0 WATER) X 98.3% HPLC

STORAGE CONDITIONS

+4 °C in a dry place. **STORAGE**

EXPIRATION DATE 12/2025 under the above conditions.

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ANALYTICAL CONDITIONS

INSTRUMENT AGILENT 1290 HPLC UV-VIS (DAD);

AB-SCIEX 6600 TRIPLE TOF

COLUMN Poroshell 120, EC-C18; 150 x 3 mm, 2.7 μm particle size

MOBILE PHASE A – 25 mM Potassium Phosphate in Ultrapure water pH 7.0

B - 95:5 Acetonitrile:Water

Isocratic 5% B for 5 minutes, then increasing to 7% B over 5 minutes. Increasing to

30% B over 5 minutes then decreasing to 5% B over 5 minutes.

COLUMN TEMP. 35 °C

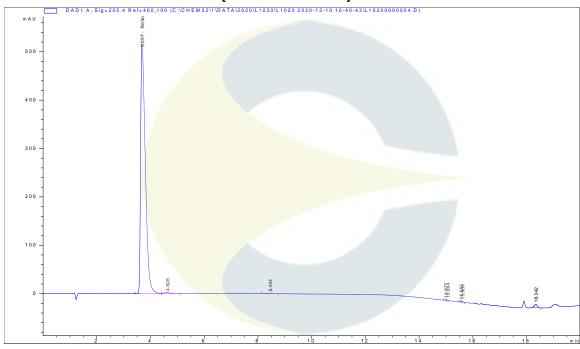
FLOW RATE 0.5 mL/minute

INJECTION VOL. 5.0 μL

INJECTION CONC. 1.0 mg/mL in 0.01 M NaOH (Aq)

DETECTION $205 \pm 4 \text{ nm}$

HPLC CHROMATOGRAM OF VITAMIN H (CDXP-20-00850)





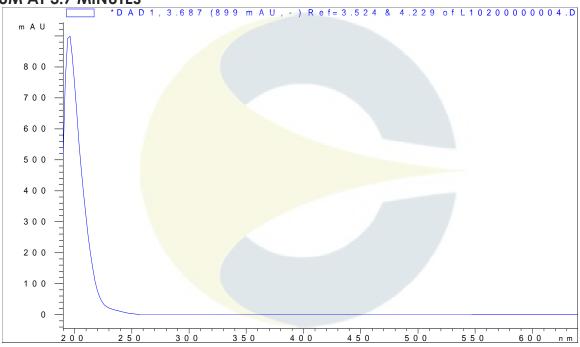




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UV SPECTRUM AT 3.7 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK





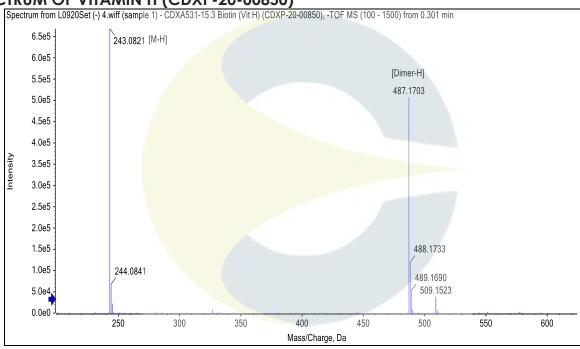




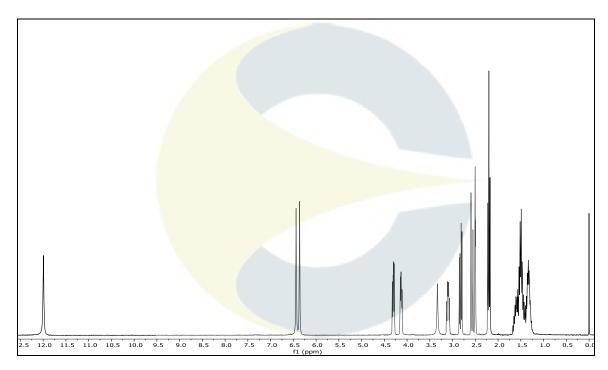
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MASS SPECTRUM OF VITAMIN H (CDXP-20-00850)



1H-NMR SPECTRUM OF VITAMIN H (CDXP-20-00850) IN DMSO-d6





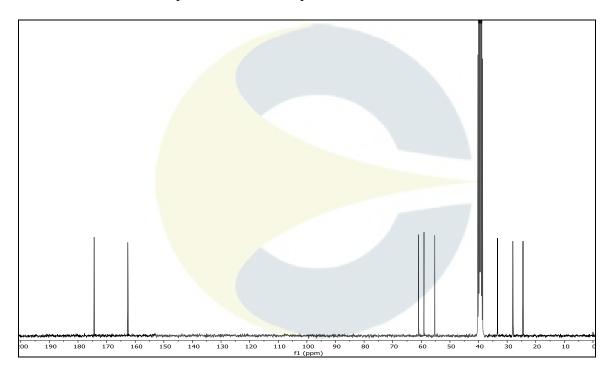




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13C-NMR SPECTRUM VITAMIN H (CDXP-20-00850) IN DMSO-d6





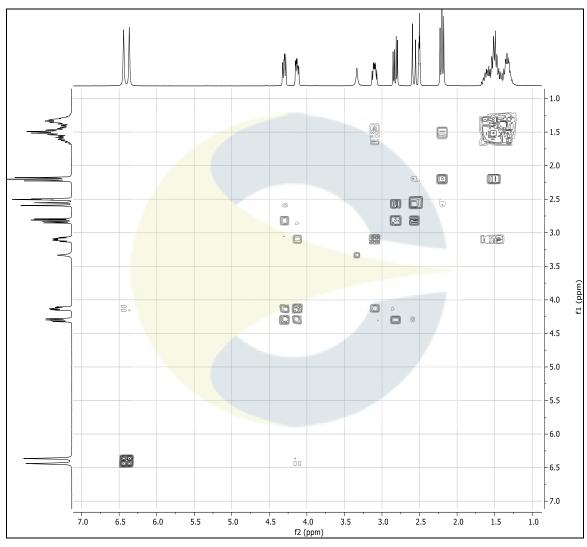




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COSY-NMR SPECTRUM OF VITAMIN H (CDXP-20-00850) IN DMSO-d6



REVISION HISTORY

Revision History	<u>Date of Revision</u>	Document/Changes

00 01/13/2021 New report