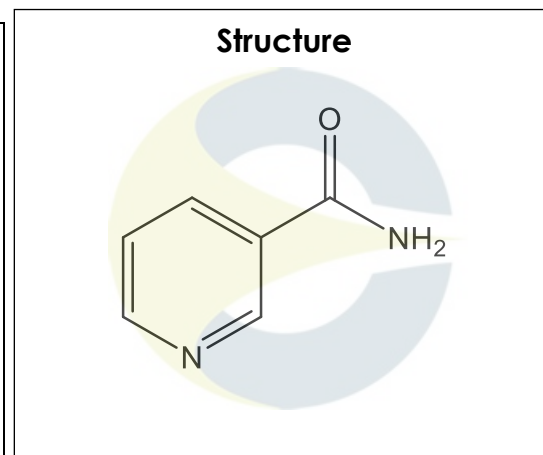


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PRODUCT NAME	Vitamin B3
PART NUMBER	00022724
STANDARD TYPE	Primary (P)
LOT NUMBER	00022724-487
REPORT NUMBER	CDXA-RSS-9286-00
SAMPLE NUMBER	CDXP-21-00009
DATE OF SAMPLE	02/04/2021
DATE OF REPORT	03/11/2021



CHEMICAL NAMES	Niacinamide; β -Pyridinecarboxamide; Nicotinamide; Nicotinic acid amide
CHEMICAL FORMULA	C ₆ H ₆ N ₂ O
MOLECULAR WEIGHT (MW)	122.12
CHEMICAL FAMILY	Vitamins
CAS NUMBER	[98-92-0]
EC#(EINECS)	202-713-4
RTECS	QS3675000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	99.9%
HPLC	0.700.10.2.METH60	≥ 90%	99.9%
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: 99.9% IS BASED ON (100 - 0.0 SOLVENTS - 0.0 WATER) X 99.9% HPLC

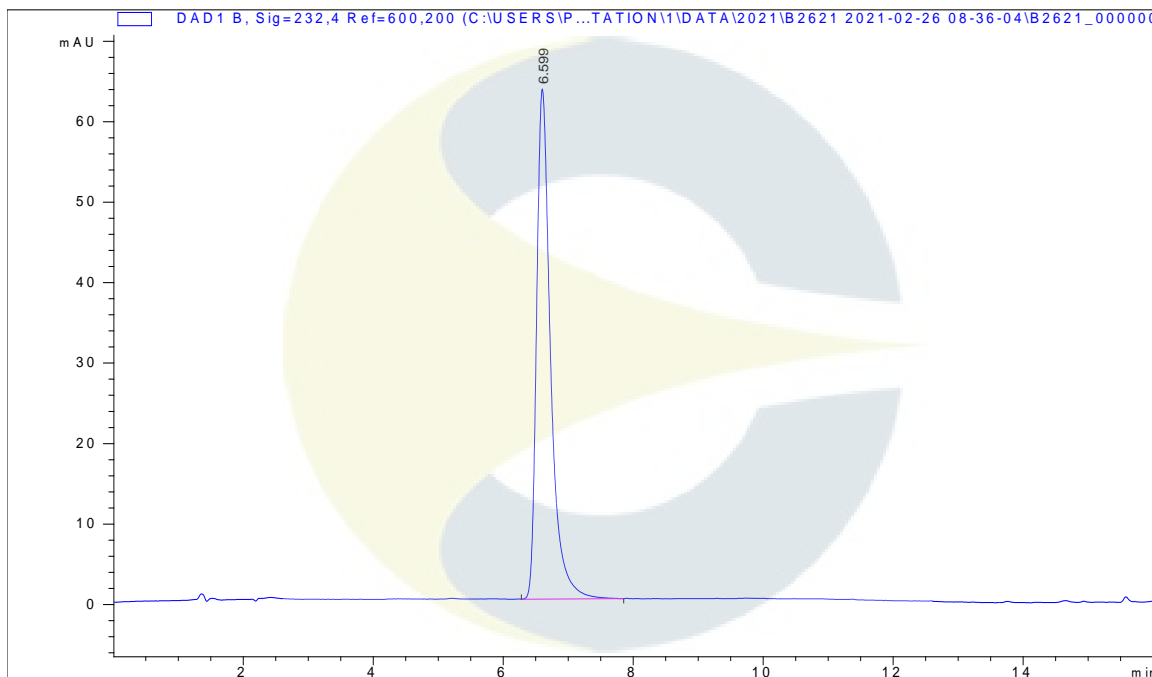
STORAGE CONDITIONS

STORAGE	Room Temperature in a dry place.
EXPIRATION DATE	02/2026 under the above conditions.

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ANALYTICAL CONDITIONS

INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD); AB-SCIEX 6600 TRIPLE TOF
COLUMN	Agilent Poroshell 120 EC-C18 3.0 x 150 mm; 2.7 µm particle size
MOBILE PHASE	A – 25 mM potassium phosphate (aq), pH 7.0; B - Acetonitrile; Isocratic 1% B for 5 minutes, increasing to 30% B over 7 minutes, then increasing to 40% over 4 minutes. Return to 1% B over 0.1 minutes.
COLUMN TEMP.	35 °C
FLOW RATE	0.45 mL/minute
INJECTION VOL.	5.0 µL
INJECTION CONC.	0.1 mg/mL in Ultrapure water
DETECTION	232 ± 2 nm

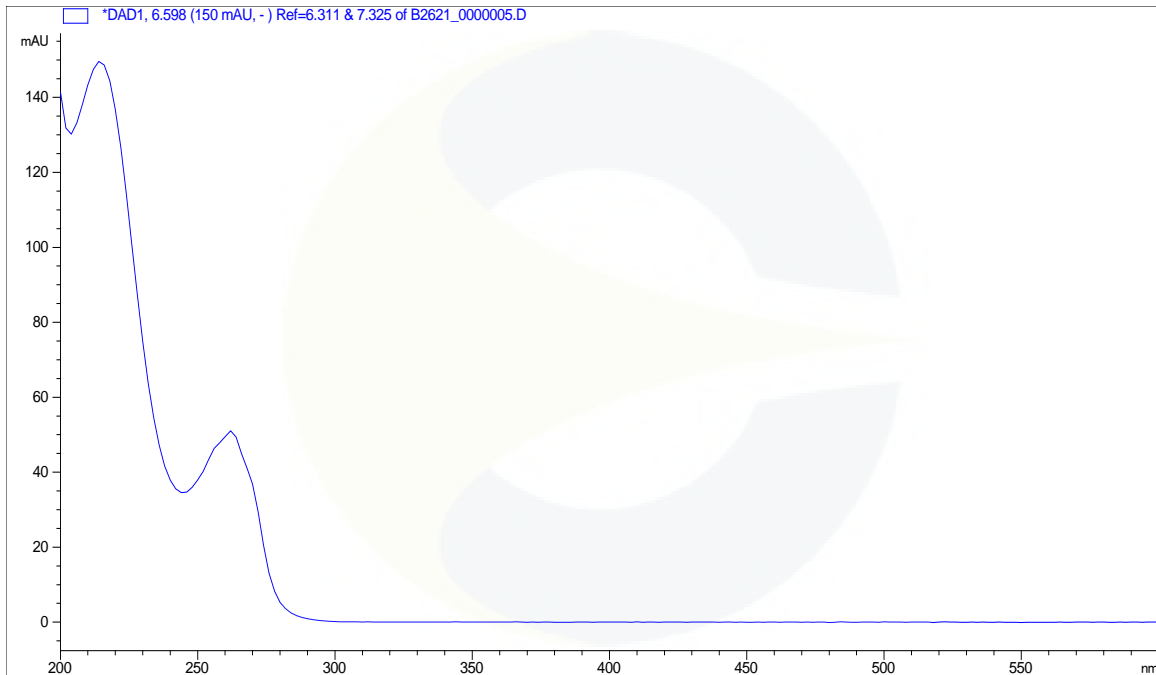
HPLC CHROMATOGRAM OF VITAMIN B3 (CDXP-21-00009)


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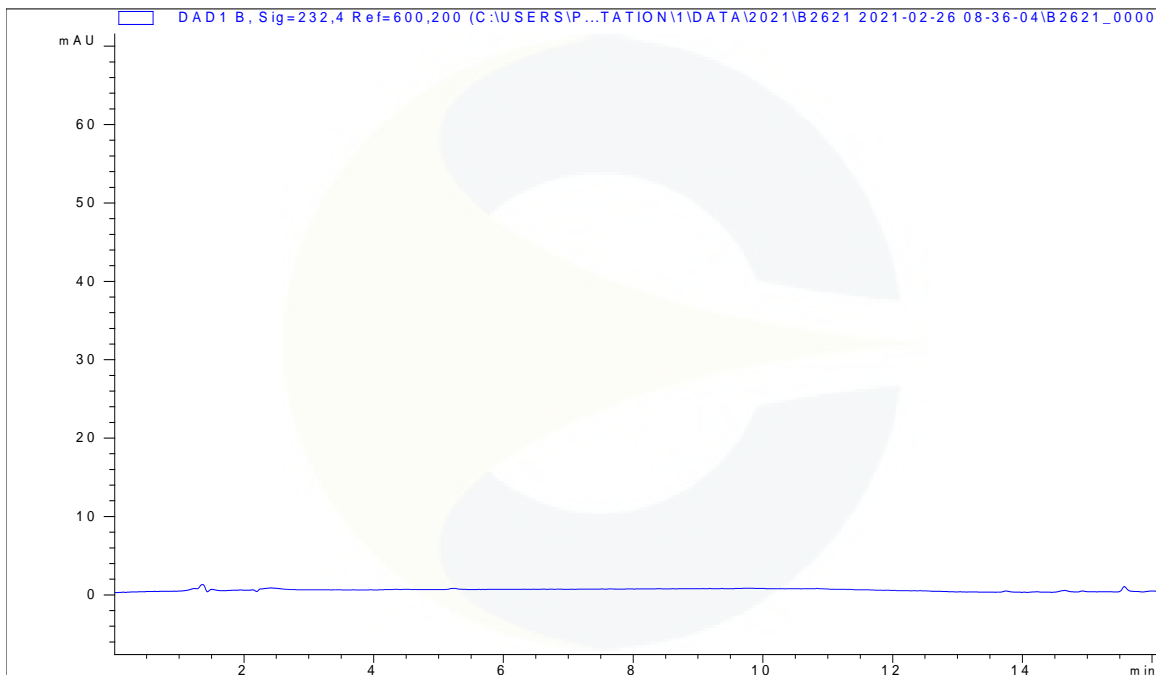
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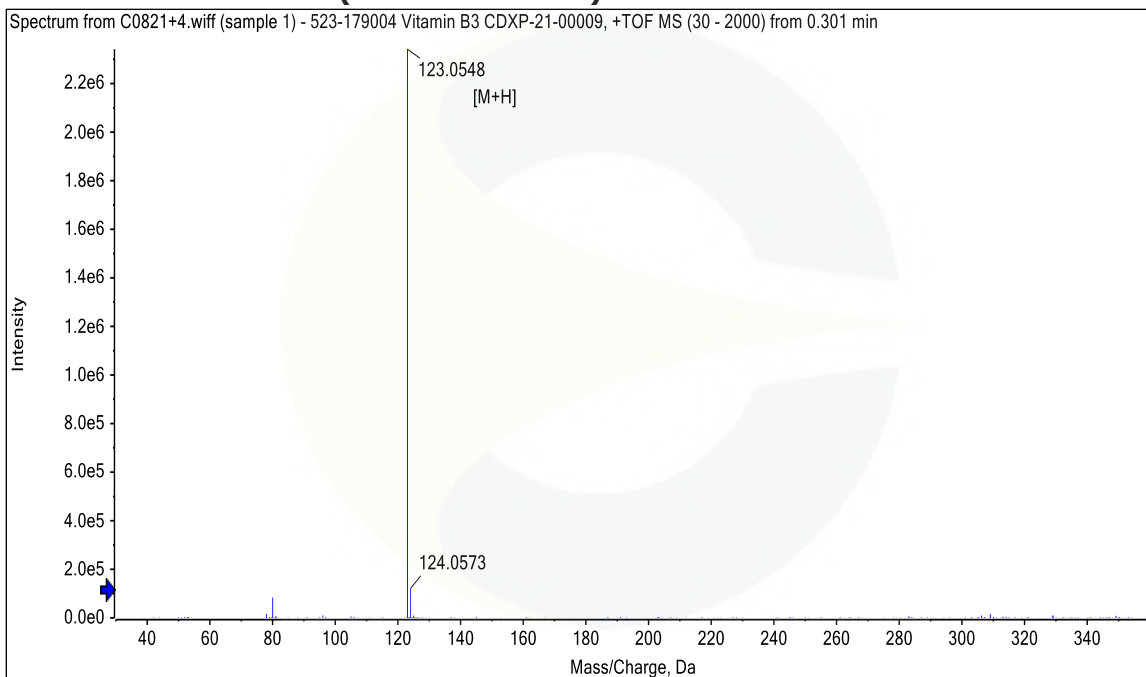
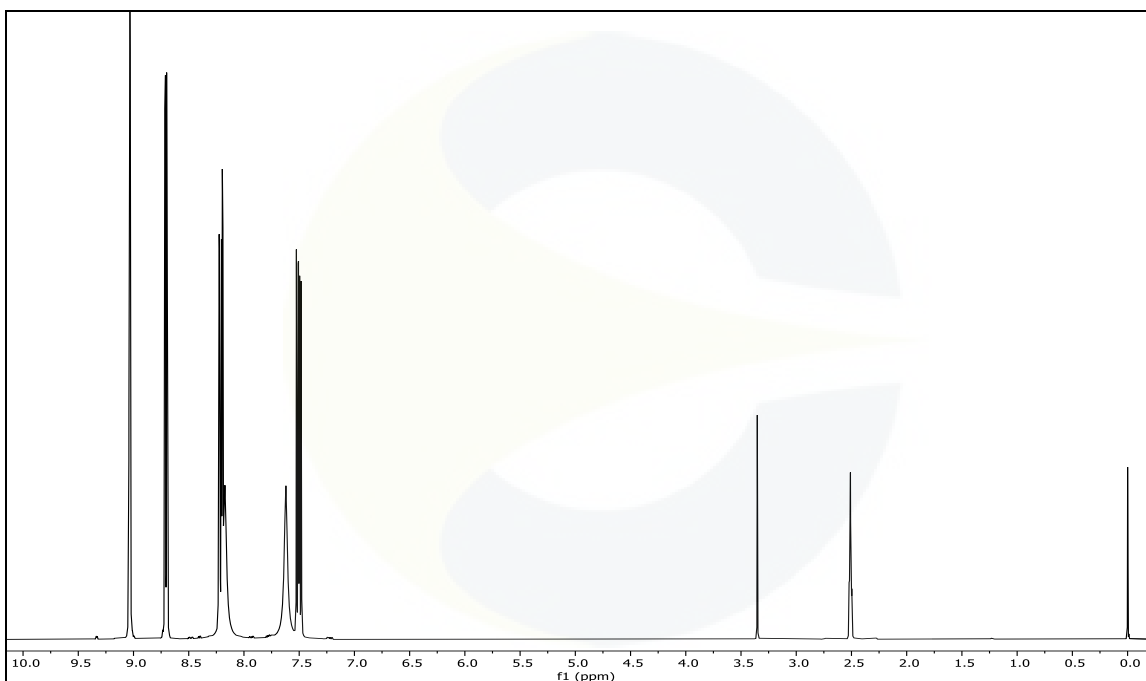
UV SPECTRUM AT RT = 6.6 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK

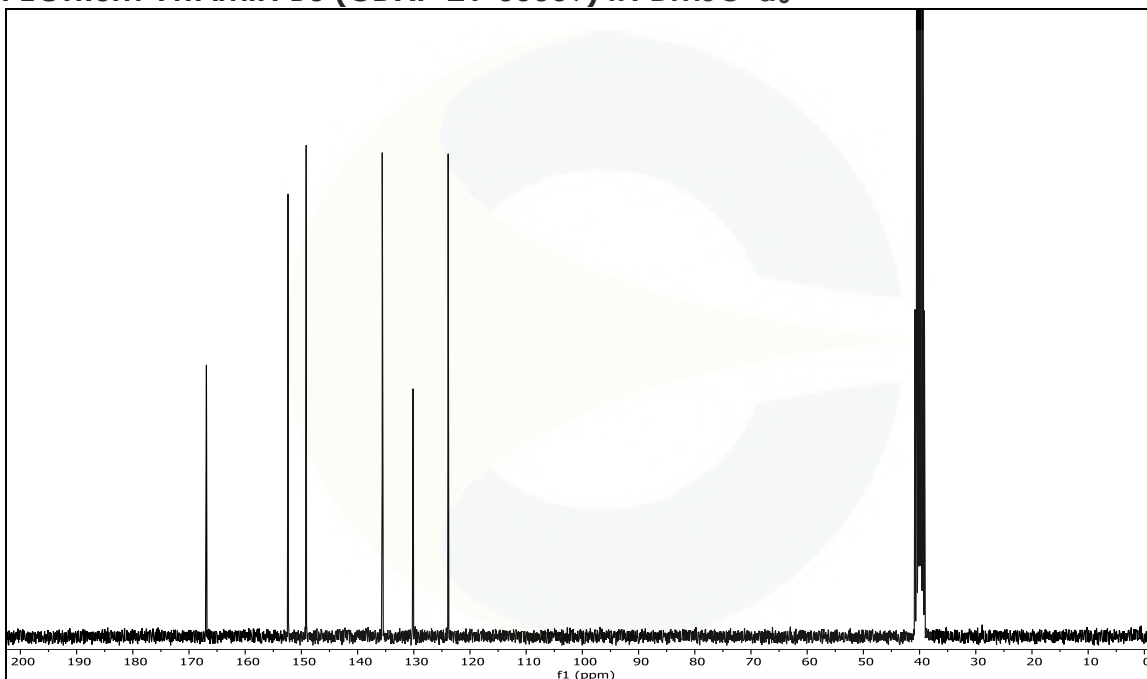


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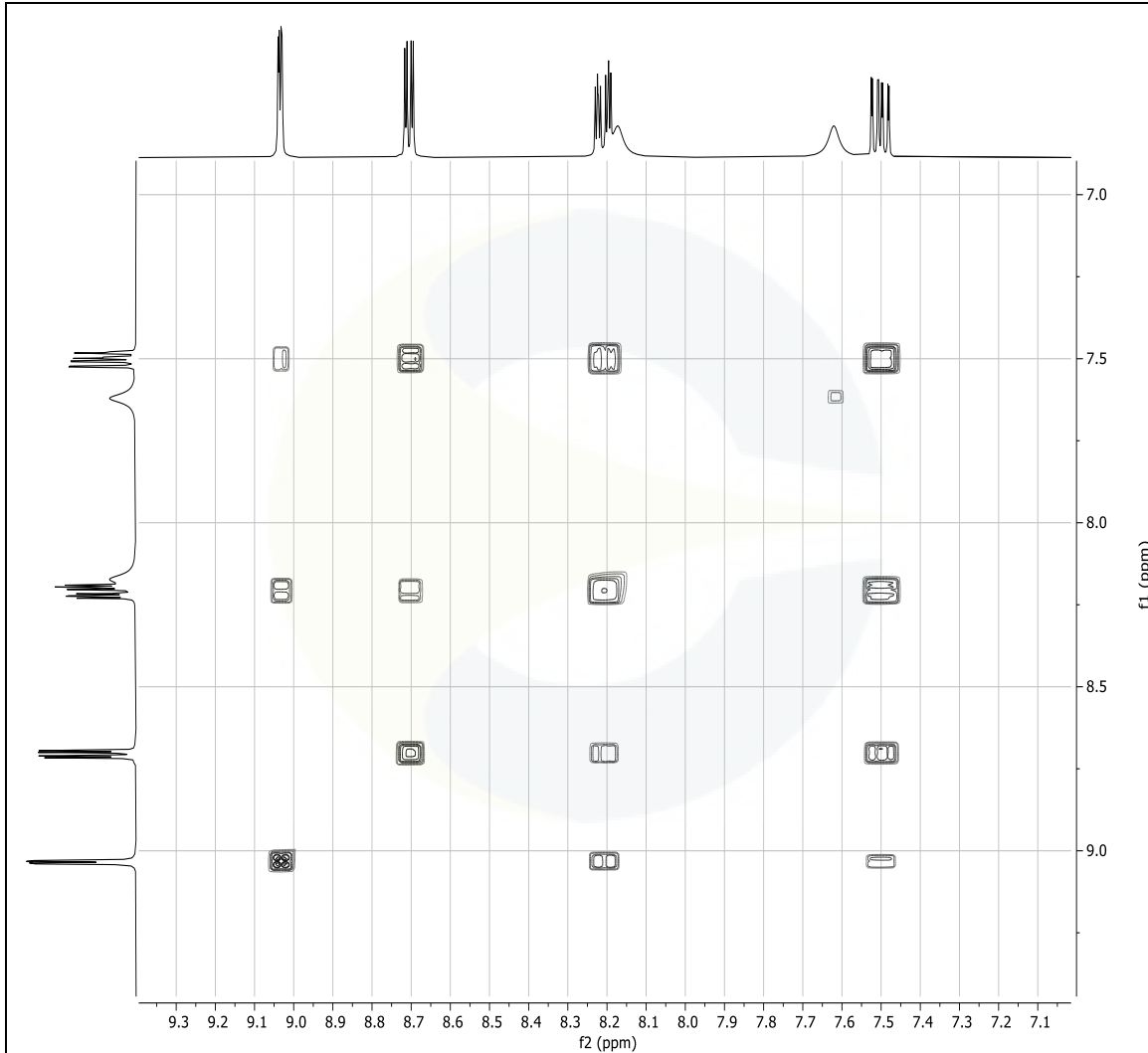
MASS SPECTRUM OF VITAMIN B3 (CDXP-21-00009)

¹H-NMR SPECTRUM OF VITAMIN B3 (CDXP-21-00009) in DMSO-d₆


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¹³C-NMR SPECTRUM VITAMIN B3 (CDXP-21-00009) IN DMSO-d₆



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COSY-NMR SPECTRUM OF VITAMIN B3 (CDXP-21-00009) IN DMSO-d₆

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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