



NEWMIND
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Chicago, IL 60605

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CERTIFICATE OF ANALYSIS

Phenylpiracetam

(4-Phenyl-2-pyrrolidone-1-acetamide)

Material Lot #: 20170919 Manufacture Date: 09/19/2017
Country of Origin: China Expiration Date: 09/18/2020

Analysis	Claim	Result
Phenylpiracetam	≥99.0%	99.53%

Test	Specification	Result
Appearance	White Powder	Complies
Residue on ignition	≤0.2%	0.16%
Loss on drying	≤0.5%	0.33%
Heavy Metals (µg/g)	≤10 ppm	Complies

Conforms to Standard

Phenylpiracetam should be stored at or below room temperature in a tightly sealed durable container.
Phenylpiracetam should be protected from excess heat, direct sunlight, excess humidity, and moisture.
Phenylpiracetam has a stable shelf life of three years from the date of testing when properly stored.



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Product Name	Phenylpiracetam	Product Lot #	20170919
Report Date	11/20/2017	Lab #	9446

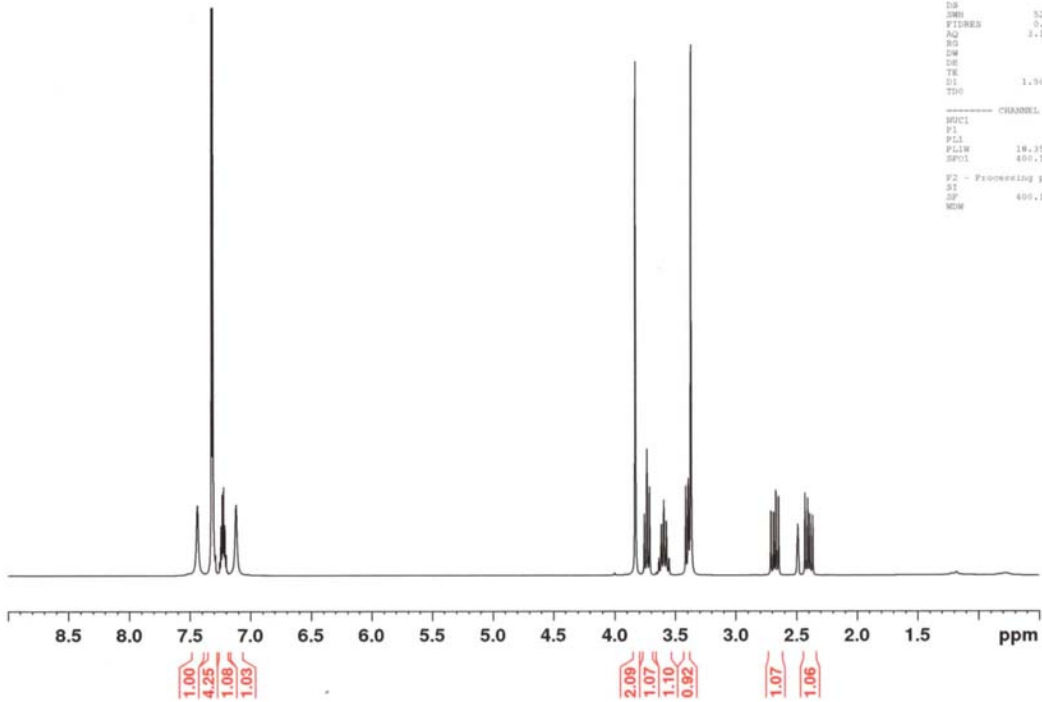
Description	Test Method	Results
Identification	¹ H-NMR	Conforms
Assay	HPLC	98.8%
Lead	ICP-MS USP<730>	0.009ppm
Arsenic	ICP-MS USP<730>	<0.001ppm
Cadmium	ICP-MS USP<730>	0.021ppm
Mercury	ICP-MS USP<730>	<0.001ppm

Peter Yoho PhD
QA Auditor

11/20/2017
Date

11/20/17

1H NMR of phenylpiracetam
in DMSO
Lot # 9444
Colmaric Analytical
400 MHz
11-13-17



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Current Data Parameters
NAME      Nov13-2017-colmaric
EXPTNO   4
PROCNO    1

F2 - Acquisition Parameters
Date_     20171113
Time      13.34
INSTRUM   spect
PROBHD    5 mm PABBO BBO
PULPROG   zg30
TD         32768
SOLVENT   DMSO
NS         32
DS         2
SWH        5200.333 Hz
FIDRES    0.158946 Hz
AQ         3.1457281 sec
RG         64
DW         96.000 usec
DE         23.61 usec
TE         298.0 K
D1         1.5000000 sec
TSD        1

===== CHANNEL f1 =====
NUC1       1H
P1         11.00 usec
PL1        -2.50 dB
PL12       18.35882598 Hz
SFO1       400.1320007 MHz

F2 - Processing parameters
SI         32768
SF         400.1300049 MHz
WDW        RM
```