



LIFTMODE  
47 W. Polk St. STE 100-241  
Chicago, IL 60605

liftmode@liftmode.com  
www.liftmode.com

## CERTIFICATE OF ANALYSIS

### Phenibut HCL Powder (β-phenyl-γ-aminobutyric acid HCl)

Material Lot #: 180304      Manufacture Date: 01/18/2018  
Country of Origin: China      Retesting Date: 05/23/2021

Analysis	Claim	Result
Phenibut HCL	≥99%	99.39%

Test	Specification	Result
Appearance	Almost White Crystal	Complies
Melting Point	194.0-202.0 °C	197.4-198.6 °C
Residue on Ignition	≤0.1%	0.06%
Loss on Drying	≤0.5%	0.25%
pH Value	2.3-2.7	2.41
Sulfate	≤0.05%	Complies
Heavy Metals (µg/g)	≤10 ppm	Complies
Iron	<60 ppm	Complies
Lead	<1 ppm	Complies
Arsenic	<1 ppm	Complies
Cadmium	<1 ppm	Complies
Mercury	<1 ppm	Complies
Total Plate Count	<1000 cfu/g	90 cfu/g
Yeast & Mold	<100 cfu/g	25 cfu/g
E. Coli	Complies	Complies
Salmonella	Complies	Complies

Phenibut HCl should be stored at or below room temperature in a tightly sealed durable container.  
Phenibut HCl should be protected from excess heat, direct sunlight, excess humidity and moisture.  
Phenibut HCl has a stable shelf life of 3 years from the date of analysis when properly stored.



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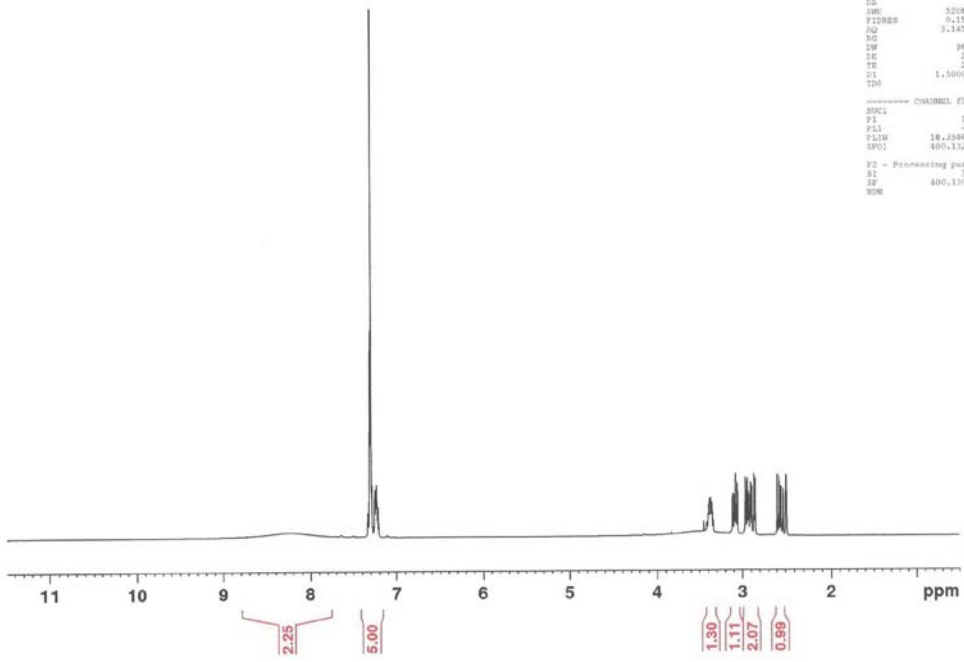
Product Name	Phenibut HCL	Product Lot Number	180304
Report Date	05/24/18	Laboratory Number	10232

Description	Method	Result
Identification	Proton NMR	Conforms to structure
Assay	CA-073 (HPLC)	99.2%
Lead	ICP-MS USP <730>	0.352 ppm
Arsenic	ICP-MS USP <730>	<0.001 ppm
Cadmium	ICP-MS USP <730>	<0.001 ppm
Mercury	ICP-MS USP <730>	<0.001 ppm

*Collin Thomas*  
Laboratory Manager

05/24/2018 5/24/18  
Date

1H NMR of phenibut HCL  
in DMSO  
Lot # 10232  
Colmaric Analytical  
400 MHz  
05-17-18



```
Current Data Parameters
NAME      May17-2018-Colmaric
EXPNO     1
PROCNO    1

F2 - Acquisition Parameters
Date_     20180517
Time      12:04
INSTRUM   spect
PROBHD    5 mm PABBO BB
PULPROG   zgpg30
TD         65536
SOLVENT   DMSO
NS         512
DS         4
SWH        500.133 MHz
FIDRES     0.156946 Hz
AQ         3.1437201 sec
RG         64
DF         38.005 sec
DE         25.43 mm
TE         298.0 K
AQ         1.5000000 sec
TD0        1

===== CHANNEL f1 =====
NUC1       1H
P1         11.18 usec
PL1        -2.50 dB
PL12       18.2869958 dB
PL13       400.1120007 MHz
SFO1       400.1120007 MHz

F2 - Processing parameters
SI         32768
SF         400.1120007 MHz
WDW        EM
```