



LIFTMODE
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CERTIFICATE OF ANALYSIS

Phenibut HCL

(*β-phenyl-γ-aminobutyric acid hydrochloride*)

Material Lot #: 20200413 Manufacturer Analysis Date: 04/13/2020
Country of Origin: China Analysis Date: 06/06/2020
Retesting Date: 06/06/2023

Analysis	Claim	Result
Phenibut HCL	≥99.0%	100.7%

Test	Specification	Result
H-NMR ID	Conforms	Conforms
HPLC Assay	≥99.0%	100.7%
Heavy Metals	<2ppm	Conforms
Arsenic	≤1 ppm	0.008 ppm
Lead	≤1 ppm	0.158 ppm
Cadmium	≤1 ppm	0.004 ppm
Mercury	≤0.1 ppm	0.001 ppm

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 retesting period of 3 years from the date of analysis when properly stored.



Certificate of Analysis


Client:
Synaptent LLC
47 W Polk Street, 100-241
Chicago, IL 60654

Sample Collected By: Client

Product Name	Phenibut HCL	Product Lot Number	20200413
Report Date	06/06/20	Laboratory Number	20050318

Description	Method	Result
Identification	H-NMR	Conforms
Assay	HPLC	100.7%
Lead	ICP-MS	0.158 ppm
Arsenic	ICP-MS	0.008 ppm
Cadmium	ICP-MS	0.004 ppm
Mercury	ICP-MS	0.001 ppm

Collin Thomas 
Laboratory Manager

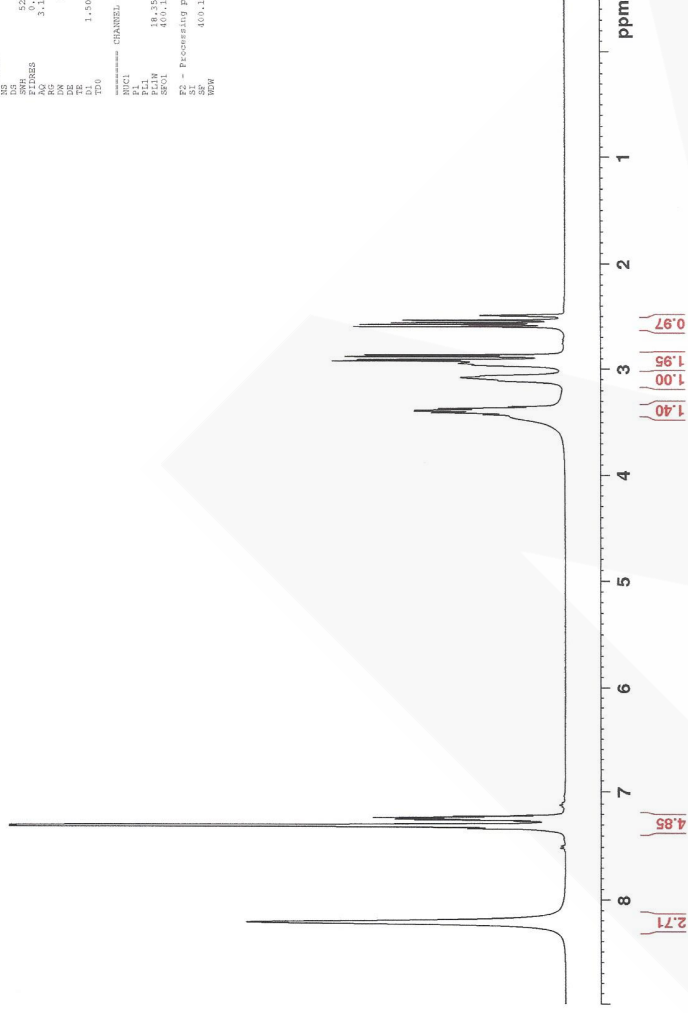
06/06/2020 
Date

The result(s) stated in this report is only for the sample submitted. This report may not be reproduced in whole or in part, nor may any reference be made to the work, the result, or the company in any news release, public announcements or advertising without our prior written consent.

812 Meadow Lark Lane, Goodlettsville, TN 37072
Tel: 615-239-8604

1H NMR of Phenibut HCl
in DMSO
Lot # 20050318
Comparative Analytical
400 MHz
06-03-20

Current Data Parameters
NAME: 20050318-2005-comparative
PROCNO: 1
Date_ Acquisition Parameters
Date_: 20200403
Time_: 11:51:00
INSTRUM: spect
PROBHD: 5 mm PABBO BBO
PULPROG: zgpg30
TD: 32768
AQ: 0.159999999
RG: 32
SFOUNT: 52
SOLVENT: DMSO
NS: 5208.333 Hz
ETDRES: 0.1158946 Hz
FIDRES: 0.1158946 Hz
AQ: 0.159999999 sec
RG: 32.00000000
SFO: 400.1325000 MHz
TD: 32768
SOL: 1.500000000 sec
===== CHANNEL f1 =====
NUC1: 1H NMR
P1: 11.50000000 sec
PL1: 0.00000000 dB
PC1: 10.00000000 sec
SFO1: 400.1325000 MHz
===== CHANNEL f2 =====
NUC2: 13C NMR
P2: 1.000000000 sec
PL2: 0.00000000 dB
PC2: 10.00000000 sec
SFO2: 100.6281500 MHz
===== CHANNEL f3 =====
NUC3: 15N NMR
P3: 1.000000000 sec
PL3: 0.00000000 dB
PC3: 10.00000000 sec
SFO3: 400.1325000 MHz



Main Benefits

- Phenibut is a nootropic and calming β -phenyl derivative of GABA, the main inhibitory neurotransmitter. Phenibut acts as a GABA-B agonist and Ca^{2+} channel blocker.
- Phenibut HCl is the stable hydrochloride salt of this nootropic compound
- Benefits of Phenibut include calming, mood lifting, sociability enhancing and sensory enhancing effects, as well as promotion of deep, restful sleep.

Main Cautions

- Phenibut tolerance builds quickly** and it should not be used more than twice per week to mitigate the potential for adverse effects.
- Do not exceed the recommended serving size. Mixing Phenibut with CNS depressants may cause dizziness, vertigo, nausea and lethargy.
- Overuse of Phenibut HCl can cause physical dependence and withdrawal. Symptoms of withdrawal may include anxiety, depression, and insomnia.

Usage Tips

- A 0.625cc measuring spoon is included. One level spoon contains one serving of approximately **500mg Phenibut HCl**. As a nootropic compound, take 1-2 servings 1-2 times per day. Start at the lower suggested quantity to assess response.
- The negative effects of Phenibut HCl are dependent on the amount taken, so use of a scale with 10mg/0.01g accuracy or better is highly recommended.
- The benefits of Phenibut HCl are most effective when they are supported by a healthy diet and plenty of exercise.

Phenibut Hydrochloride

