



LIFTMODE  
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## CERTIFICATE OF ANALYSIS

### Phenibut HCL

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

Material Lot #: 20200408  
Country of Origin: China

Manufacturer Analysis Date: 04/08/2020  
Analysis Date: 06/06/2020  
Retesting Date: 06/06/2023

Analysis	Claim	Result
Phenibut HCL	≥99.0%	100.9%

Test	Specification	Result
H-NMR ID	Conforms	Conforms
HPLC Assay	≥99.0%	100.9%
Heavy Metals	<2ppm	Conforms
Arsenic	≤1 ppm	0.001 ppm
Lead	≤1 ppm	0.090 ppm
Cadmium	≤1 ppm	<0.001 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	20200408
Report Date	06/06/20	Laboratory Number	20050319

Description	Method	Result
Identification	H-NMR	Conforms
Assay	HPLC	100.9%
Lead	ICP-MS	0.090 ppm
Arsenic	ICP-MS	0.001 ppm
Cadmium	ICP-MS	<0.001 ppm
Mercury	ICP-MS	<0.001 ppm

Collin Thomas   
Laboratory Manager

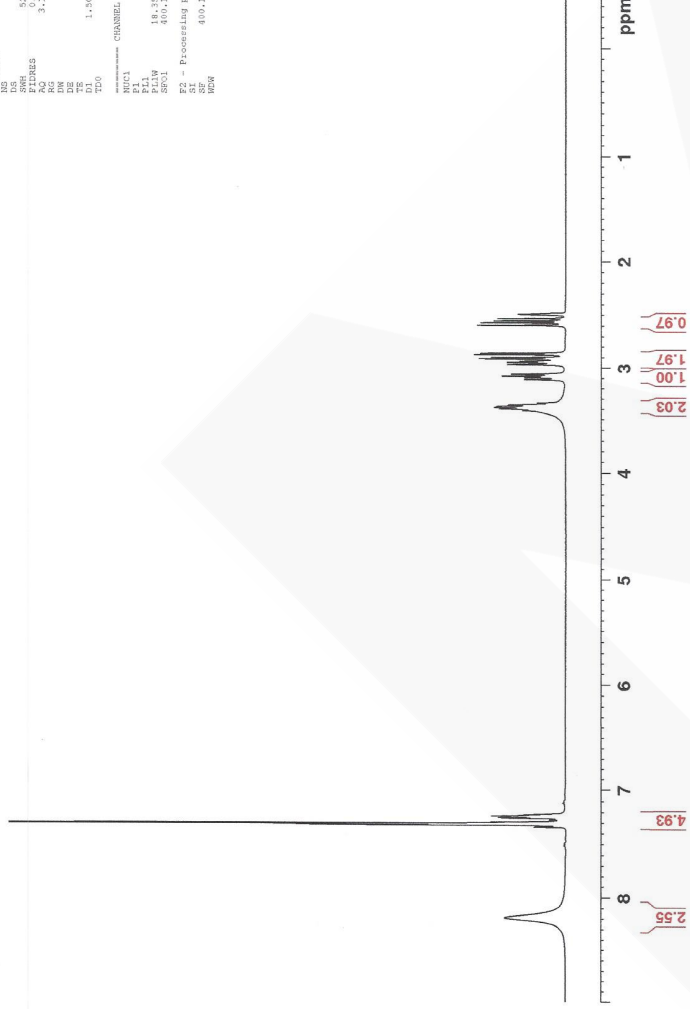
06/06/2020   
Date

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# 20050319  
 Colimarc Analytical  
 400 MHz  
 06-03-20

Current Data Parameters  
 NAME 3mmQ2-2H1-SC-Metric  
 PROCNO 1  
 F2 - Acquisition Parameters  
 Date\_ 20200603  
 Time\_ 11:52:00  
 INSTRUM spect  
 PROBD 5 mm PABD2-BB-  
 T1 1.00 sec  
 T1 3.768  
 T2 0.100  
 INSTRUM spect  
 US 5508.133 Hz  
 FIDRES 0.158976 Hz  
 AQ 3.157718 sec  
 RG 655.200  
 DR 32.00 used  
 DE 2.00 used  
 TE 299.0 K  
 TD 1.50000000 sec  
 ===== CHANNEL f1 =====  
 NUCL 1H  
 P1 11.00 usec  
 PL1 0.00 dB  
 RF1 400.1320000 MHz  
 SFO1 400.1320000 MHz  
 F2 - Processing parameters  
 OF 400.1320000 MHz  
 GC 400.1320000 MHz  
 HZR



### Main Benefits

- Phenibut is a nootropic and calming  $\beta$ -phenyl derivative of GABA, the main inhibitory neurotransmitter. Phenibut acts as a GABA-B agonist and  $\text{Ca}^{2+}$  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

