

LIFTMODE

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CERTIFICATE OF ANALYSIS

Phenibut HCl

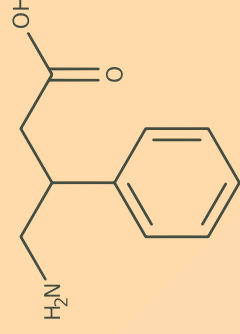
(β -phenyl- γ -aminobutyric acid)

Material Lot #: 20200705
Country of Origin: China
Analysis Date: 09/15/2020
Retesting Date: 09/15/2023

Analysis	Claim	Result
Phenibut HCl	$\geq 99\%$	99.4%
Test	Specification	Result
HNMR ID	Conforms	Conforms
HPLC Assay	$\geq 99\%$	99.4%
ICP-MS		
Arsenic	≤ 1.5 ppm	< 0.001 ppm
Lead	≤ 0.5 ppm	0.119 ppm
Cadmium	≤ 0.5 ppm	< 0.001 ppm
Mercury	≤ 0.5 ppm	< 0.001 ppm
Total Aerobic Count	< 1000 cfu/g	Conforms
Yeast & Mold	< 100 cfu/g	Conforms
Coliform	< 10 cfu/g	Conforms
<i>E. coli</i>	Negative	Conforms
Salmonella	Negative	Conforms

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.

Phenibut Hydrochloride



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 $\alpha 2\delta$ subunit containing voltage-dependent Ca^{2+} channel blocker.
- Phenibut HCl is the stable hydrochloride salt of this nootropic compound
- Benefits of Phenibut include calming, mood lifting, sociability enhancing, 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 scoop is included. One level scoop 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.
- This nootropic compound is not intended to treat, diagnose, prevent or cure any diseases. Consult your healthcare provider before use if you have a medical condition or if you are taking any prescription medications.
- Anecdotal sources suggest that it's relatively lower risk for an adult of average build to stack Phenibut HCl with other nootropic compounds, however **negative effects such as tolerance and withdrawal frequent use or large doses without extended breaks is highly recommended.**



Certificate of Analysis

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

Sample Collected By: Client

Product Name	Phenibut HCL Fine Crystals	Product Lot Number	20200705
Report Date	09/15/20	Laboratory Number	20080939

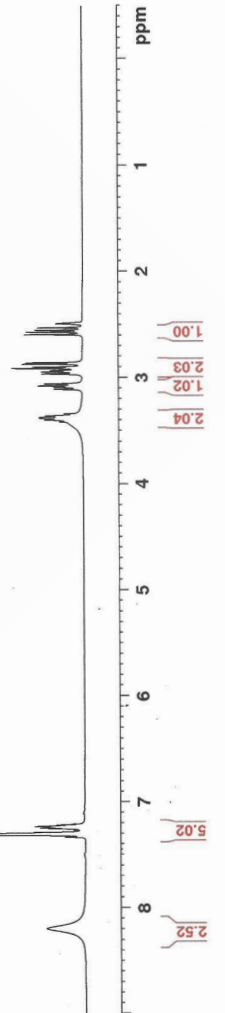
Description	Method	Specification	Results
Identification	H-NMR	Conforms	Conforms
Assay	HPLC	NLT 99%	99.4%
Lead	ICP-MS	<1.5 ppm	0.119 ppm
Arsenic	ICP-MS	<0.5 ppm	<0.001 ppm
Cadmium	ICP-MS	<0.5 ppm	<0.001 ppm
Mercury	ICP-MS	<0.5 ppm	<0.001 ppm
Total Aerobic Count	Biolumix	<1,000 cfu/g	<1,000 cfu/g
Yeast & Mold	Biolumix	<100 cfu/g	<100 cfu/g
E. Coli	Biolumix	Absent	Absent
Coliform	Biolumix	<10 cfu/g	<10 cfu/g
Salmonella	Biolumix	Absent	Absent

Collin Thomas
 Laboratory Manager

09/15/2020 *9/15/20*
 Date

Current Data Parameters
 Name: Sep1-2020-Colmaric
 PRGNO: 1
 F2 - Acquisition Parameters
 Data_ 2020091
 INSTRUM 400NMR
 PULPROG zgpg30
 F2 - Processing parameters
 SI 32768
 SF 400.132607 MHz
 DF 100000
 TD0 1
 CHANNEL C1
 NU1 11.59 uspc
 PL1 18.3586598 W
 FL1 400.132607 MHz
 SE01 400.132607 MHz
 F2 - Processing parameters
 SI 32768
 SF 400.132607 MHz
 DF 100000
 TD0 1

¹H NMR of Phenibut HCl fine crystals in DMSO-L₆
 L# 20080939
 Colmaric Analytical
 400 MHz
 9-1-20



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