

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

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CERTIFICATE OF ANALYSIS

Adrafinil

(2-(benzhydrylsulfinyl)acetohydroxamic acid)

Material Lot#170717Manufacture Date:07/17/17Country of Origin:ChinaRetesting Date:07/17/20

Analysis Claim Result
Assay ≥98% 99.39%

 Test
 Claim
 Result

 Appearance
 Light red to off white crystalline powder
 Complies

 Solubility
 Soluble in methanol, slightly soluble in ethyl-acetate & complies
 Complies

 & methylene chloride, practically insoluble in water
 Identification
 IR & HPLC matches standard
 Complies

Impurity Test	Claim	Result
Melting Point	148°~150°C	Complies
Total Impurities	≤2.0%	0.30%
Identification	Positive	Complies
Any Single Impurity	≤0.5%	0.21%
Loss on Drying	≤0.5%	0.27%
Residue on Ignition	≤0.1%	0.05%
Heavy Metals	≤20ppm	Complies
Purity (HPCL)	≥98.0%	99.39%

Conforms to Standard

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



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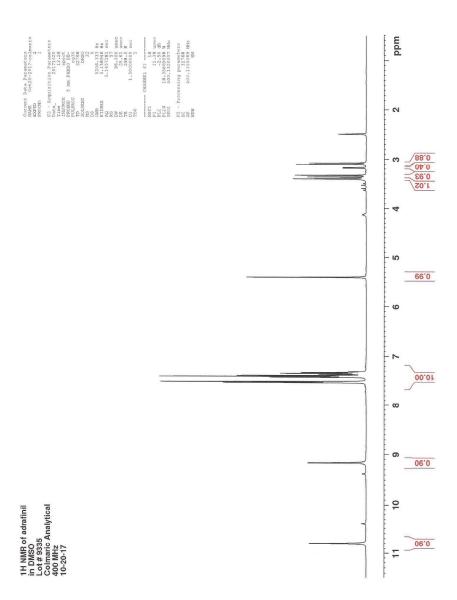
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Product Name	Adrafinil	Client Lot Number	170717
Report Date	10/24/17	Laboratory #	9335

Test	Method	Result
Identification	Proton NMR	Conforms
Assay	HPLC	98.6%
Lead	ICP-MS USP <730>	0.014 ppm
Arsenic	ICP-MS USP <730>	0.154 ppm
Cadmium	ICP-MS USP <730>	<0.001 ppm
Mercury	ICP-MS USP <730>	<0.001 ppm

Collin Thomas Mole-Laboratory Manager 10/24/2017 10/24/5

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Adrafinil (CRL-40028, Olmifon)

Precaution and Disclaimer: This Material is Sold For Research Use Only. Terms of Sale Apply. Not for Human Consumption, nor Medical, Veterinary, or Household Uses

Chemical Information: CAS Number: 63547-13-7

Molecular Weight: 289.35 g/mol

150-160°C (dac.) Melt ng Point:

C15H15NO3S Molecular Formula:

Olmifon, CRL 40028, 55547-13-7, 2-IBenzhydryisulfnyl)
acetokroxanic acd, 2-{(Ipiphenyirrethyl)sulfnyl]-N-hydroxyacetanide, 2(Ipiphenyimethyl)sulfnyl]acetokhydroxamic acd
3033226 Pubchem CID: Synenyms:

O=S(C(clccccc1)c2ccccc2)CC(=O)NC SMILES:

Technical Inforn Application:

Pale Pink, Light Fink or Pink Powder

Physical State:

tol and DMSO (>35 mg/ml). solubility: Storage: Stability:

Biochemical Activity:

Adrafini is the first discovered eugeroic (eugregoric) agent, founding a family of alertness-and wakelu ness- nornoting compounds that subsequently ye ded modefini!. It is used in neuroscience studies and in research related to nove stirnularis with reduced side effects. Unlike previously discovered stimulants, Adrafinil produces behavioral activation without typical stimulant side effects such as induction of stereotypy, anxiogenic properties, or addictive properties.1

Adrafinil reaches peak blood concentrations within one hour, and has an approximate elimination haif life of one hour, with partial metabolism into Modafinil.²

In typical humar clinical studies, Adrafinil has been administered in amounts of 6 mg/kg/d to 12 mg/kg/d.1

Adrafinil has an oral LDso of approximately 3400 mg/kg in rats, and does not exhibit

mutagenic, pari- or postnatal effects, or teratological effects in chronic high dose studies with dogs at up to 200 mg/kg/d over 2 months.⁵ Some limited research in animal models also indicates that Adrafini may produce significant

- References:

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 Drug Rev. (2006)

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