



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

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CERTIFICATE OF ANALYSIS

Tianeptine Hemisulfate Monohydrate

7-[(3-chloro-6,11-dihydro-6-methylbenzo[c,f][1,2]thiazepin-11-yl)amino]heptanoic acid 5

Material Lot#	17120201	Manufacture Date:	12/02/2017
Country of Origin:	China	Retesting Date:	12/01/2020

Analysis	Claim	Result
Assay	≥98%	99.95%

Test	Claim	Result
Appearance	White crystalline powder	Complies
Solubility	Insoluble in water, dichloromethane. Soluble in dimethylformamide	Complies
Identification	IR matches standard & assay tests positive for sulfate ion	Complies

Impurity Test	Claim	Result
Loss on drying	≤5.0%	3.50%
Residue on Ignition	≤0.1%	0.07%
Heavy Metals	≤10ppm	Complies
Any single Impurity	≤0.1%	0.04%
Total Impurities	≤0.4%	0.05%

Tianeptine Hemisulfate Sulfate should be stored at or below room temperature in a tightly sealed durable container.
Tianeptine Hemisulfate Sulfate should be protected from excess heat, direct sunlight, excess humidity and moisture.
Tianeptine Hemisulfate Sulfate 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	Tianeptine Sulfate	Client Lot Number	17120201
Report Date	12/29/17	Laboratory #	9653

Test	Method	Result
Identification	Proton NMR	Conforms
Assay	CA-081 (HPLC)	100.1%
Lead	ICP-MS USP <730>	0.017 ppm
Arsenic	ICP-MS USP <730>	0.007 ppm
Cadmium	ICP-MS USP <730>	<0.001 ppm
Mercury	ICP-MS USP <730>	0.001 ppm

Collin Thomas 
Laboratory Manager

12/29/2017 
Date

**¹H NMR of Tianeptine Sulfate
 in DMSO
 Lot # 9653
 Colmaric Analytical
 400 MHz
 12-26-17**

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Current Data Parameters
NAME      Dec26-2017-colmaric
EXPNO    2
PROCNO   1

F2 - Acquisition Parameters
Date_    20171226
Time     14.53
INSTRUM spect
PROBHD   5 mm PABBO BB-
PULPROG zg30
TD       32768
SOLVENT  DMSO
NS       32
DS       0
SWH      3200.333 Hz
FIDRES   0.158546 Hz
AQ       3.1457201 sec
RG       64
SW       96.000 usec
DE       25.61 usec
TE       298.0 K
D1       1.5000000 sec
TD0      1

----- CHANNEL f1 -----
NUC1      1H
P1       11.10 usec
PL1      -2.50 dB
PLN1     19.33869398 W
RF01     400.1320007 MHz

F2 - Processing parameters
SI       32768
SF       400.1300640 MHz
WDW      EM
  
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