



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

newmind@newmind.com  
www.newmind.com

## 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#	18012702	Manufacture Date:	01/30/2018
Country of Origin:	China	Retesting Date:	01/29/2021

Analysis	Claim	Result
Assay	≥98%	100.32%

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%	2.63 %
Residue on Ignition	≤0.1%	0.07%
Heavy Metals	≤10ppm	Complies
Any single Impurity	≤0.1%	0.07%
Total Impurities	≤0.4%	0.14%

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.




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

newmind@newmind.com  
www.newmind.com

## CERTIFICATE OF ANALYSIS

Product Name	Tianeptine Sulfate	Product lot Number	18012702
Report Date	02/21/18	Laboratory #	9876

Test	Method	Result
Identification	Proton NMR	Conforms to structure
Assay	CA-081 (HPLC)	100.6%
Lead	ICP-MS USP <730>	0.072 ppm
Arsenic	ICP-MS USP <730>	0.731 ppm
Cadmium	ICP-MS USP <730>	0.011 ppm
Mercury	ICP-MS USP <730>	0.002 ppm

Collin Thomas   
Laboratory Manager

02/21/2018 2/21/18  
Date

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.

1H NMR of Tianeptine Sulfate  
in DMSO  
Lot# 9876  
Colmaric Analytical  
400 MHz  
02-21-18

```
Current Data Parameters
NAME      Feb21-2018-colmaric
EXPNO     2
PROCNO    1

F2 - Acquisition Parameters
Date_     20180221
Time      15:24
INSTRUM   spect
PROBHD    5 mm PABBO DQ-
PULPROG   zg30
TD         32768
SOLVENT   DMSO
NS         32
DS         0
SWH        5208.333 Hz
FIDRES     0.158946 Hz
AQ         2.1437281 sec
RG         71.8
RW         95.600 usec
DE         25.61 usec
TE         298.0 K
SI         1.50000000 sec
TD0        1

===== CHANNEL f1 =====
NUC1       1H
P1         11.28 usec
PL1        -2.50 dB
PL1W       18.35869598 W
SFO1       400.1320007 MHz

F2 - Processing parameters
SI         32768
SF         400.1300066 MHz
WDW        EM
```

