



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

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CERTIFICATE OF ANALYSIS

Emoxypine Succinate (Ethylmethylhydroxypyridine Succinate)

Material Lot #: 17112001 Manufacture Date: 11/20/2017
Country of Origin: China Retesting Date: 11/19/2020

Analysis	Claim	Result
Emoxypine Succinate	>98.0%	>98.92%

Test	Claim	Result
Appearance	Off-white or white crystalline powder.	Conforms
Solubility	Freely soluble in water. Soluble in methanol & alcohol.	Conforms
Light Transmittance	≥95.0%	98.74%
pH	4.0-6.0	4.55
Total Impurities	≤ 1.0%	0.010%
Loss on Drying	≤ 1.0%	0.09%
Residue on Ignition	≤ 0.1%	0.03%
Heavy Metals	≤ 10 ppm	Conforms
Residual Solvents		
Ethanol	≤ 0.5%	Not Detected
Isopropanol	≤ 0.5%	0.0293%
Ethyl acetate	≤ 0.5%	Not Detected

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



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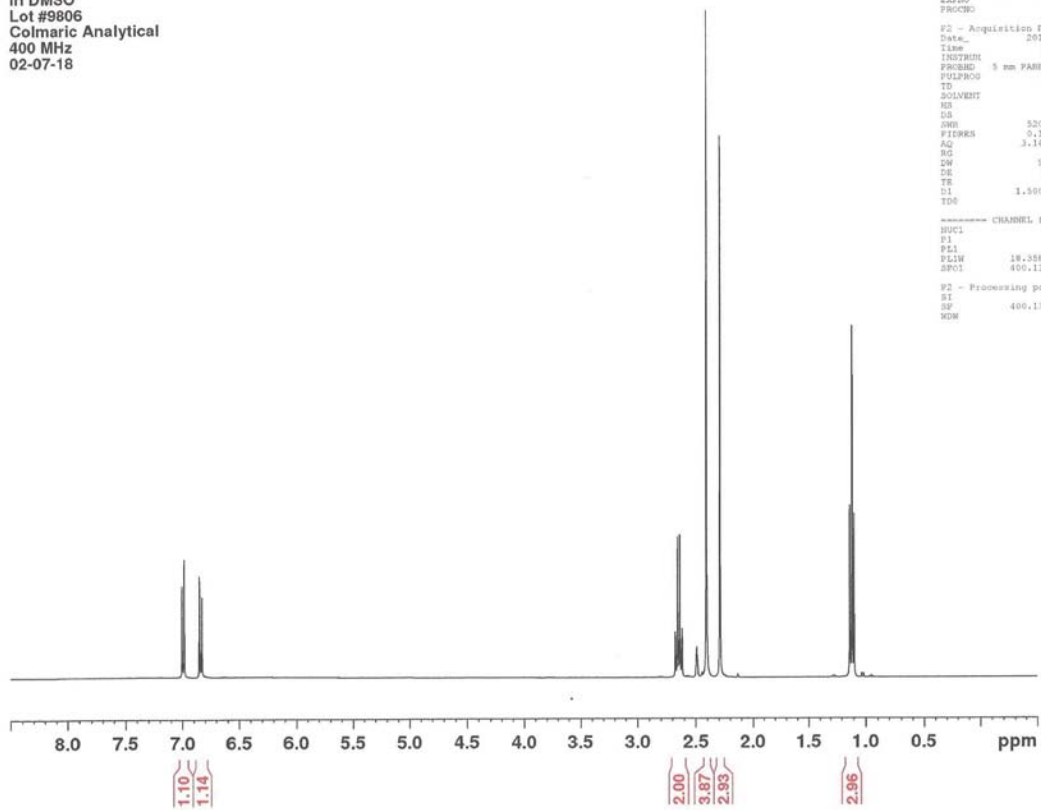
Product Name	Emoxypine Succinate	Client Lot Number	17112001
Report Date	02/08/18	Laboratory #	9806

Test	Method	Result
Identification	Proton NMR	Conforms to structure
Assay	HPLC	99.1%
Lead	ICP-MS USP <730>	0.827 ppm
Arsenic	ICP-MS USP <730>	<0.001 ppm
Cadmium	ICP-MS USP <730>	0.063 ppm
Mercury	ICP-MS USP <730>	0.019 ppm

Collin Thomas *CT*
Laboratory Manager

02/08/2018 *2/8/17*
Date

1H NMR of Emoxypine Succinate
in DMSO
Lot #9806
Colmaric Analytical
400 MHz
02-07-18



Current Data Parameters
NAME Feb07-2018-colmaric
EXPR0 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20180207
Time 13.42
INSTRUM spect
PROBHD 5 mm PABBO B0-
PULPROG zg30
TD 32768
SOLVENT DMSO
NS 32
DS 4
SWH 5208.333 Hz
FIDRES 0.158344 Hz
AQ 3.1457281 sec
RG 31.9
EW 96.000 usec
DE 25.61 usec
TE 298.4 K
D1 1.5000000 sec
TD0 1
----- CHANNEL f1 -----
NUC1 1H
P1 11.36 usec
PL1 -2.50 dB
PLW 18.35869598 W
SFO1 400.1320007 MHz
F2 - Processing parameters
SI 32768
SF 400.1300064 MHz
WDW EM