



# INDOFINE Chemical Company, Inc.

121 Stryker Lane, Bldg. 30, Suite 1 • Hillsborough, NJ 08844 • U.S.A.

Phone: (908) 359-6778 • FAX: (908) 359-1179

website: [www.indofinechemical.com](http://www.indofinechemical.com)

e-mail: [chemical@indofinechemical.com](mailto:chemical@indofinechemical.com)

## CERTIFICATE OF ANALYSIS

Catalog Number: 08-1350

Product Name: DOXYCYCLINE MONOHYDRATE

CAS Number: [17086-28-1]

Lot Number: 1104128

Chemical Formula:  $C_{22}H_{24}N_2O_8 + H_2O$

Molecular Weight: 462.45

Melting Point: 171-176°C

Appearance: Creamish yellow powder

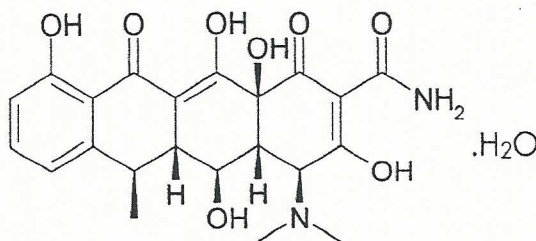
Solubility: Soluble in DMSO

TLC: Acetic acid : n-Butanol : Methanol (6:3:1)

NMR Spectrum: Enclosed (Confirms to the structure)

Storage: Store in a cool, dry place

Purity(HPLC): 99.80%





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Catalog No.: 08-1350

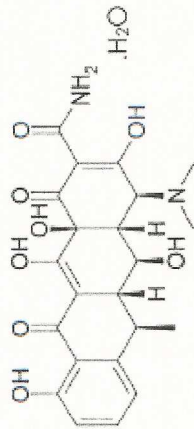
Product Name: Doxycycline monohydrate

Lot No.: 1104128

### SOLVENT

NS	DMSO
DS	16
SMH	0
FIDRES	11261.262 Hz
AQ	0.375400 Hz
RG	1.3319612 sec
DW	40.3
DE	44.400 usec
TE	6.00 usec
D1	298.2 K
TDO	1.50000000 sec
	1

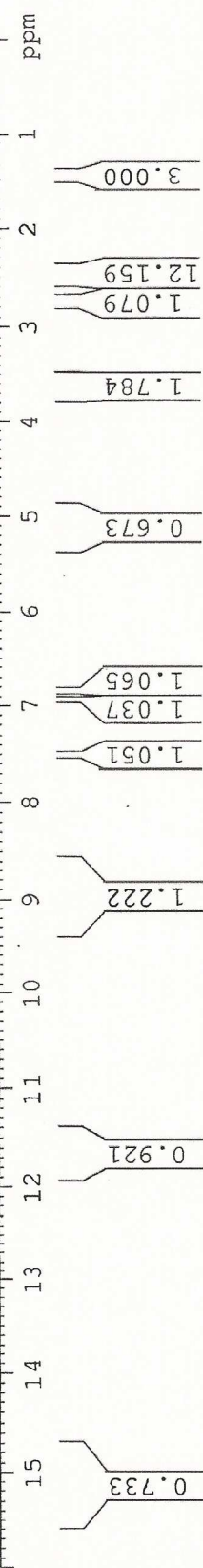
ICC-june-09  
1H IN DMSO  
AVANCE-600



```

===== CHANNEL f1 =====
NUC1 1H
P1 7.50 usec
P1.1 2.60 dB
P1.1W 6.62584448 W
SFO1 600.3351774 MHz
SI 32768
SF 600.3300115 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

```





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Product Name: Doxycycline monohydrate  
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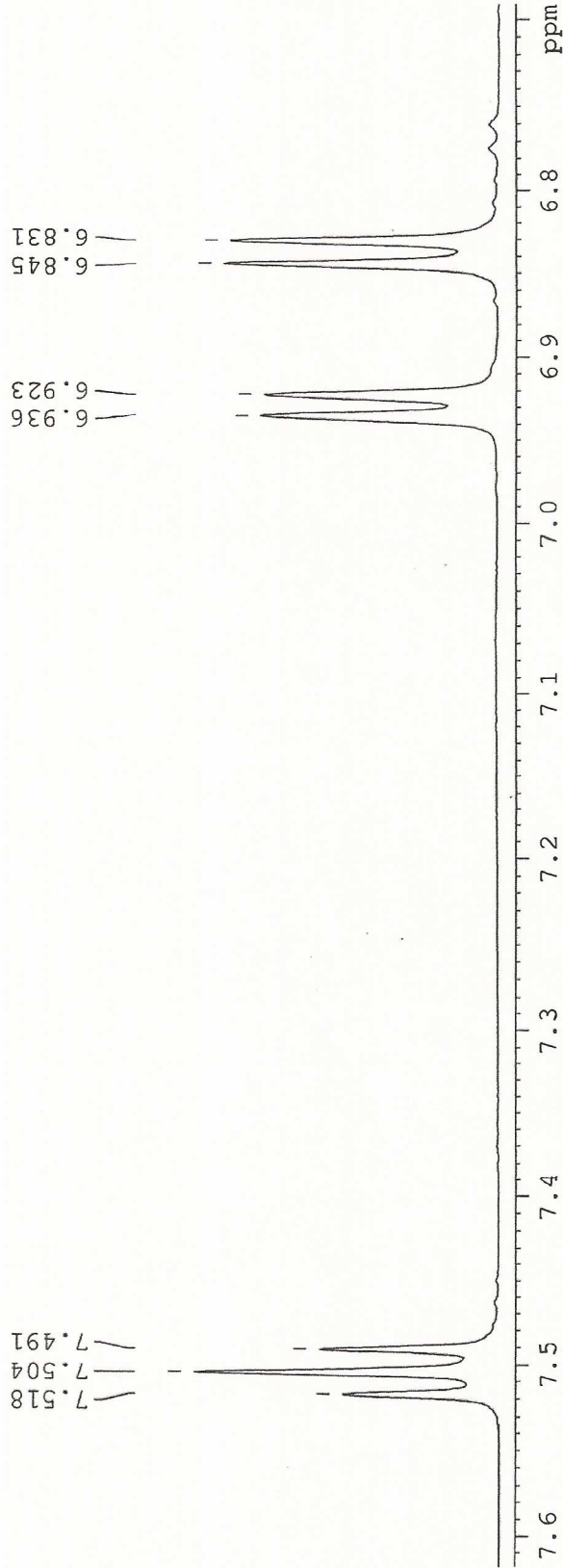
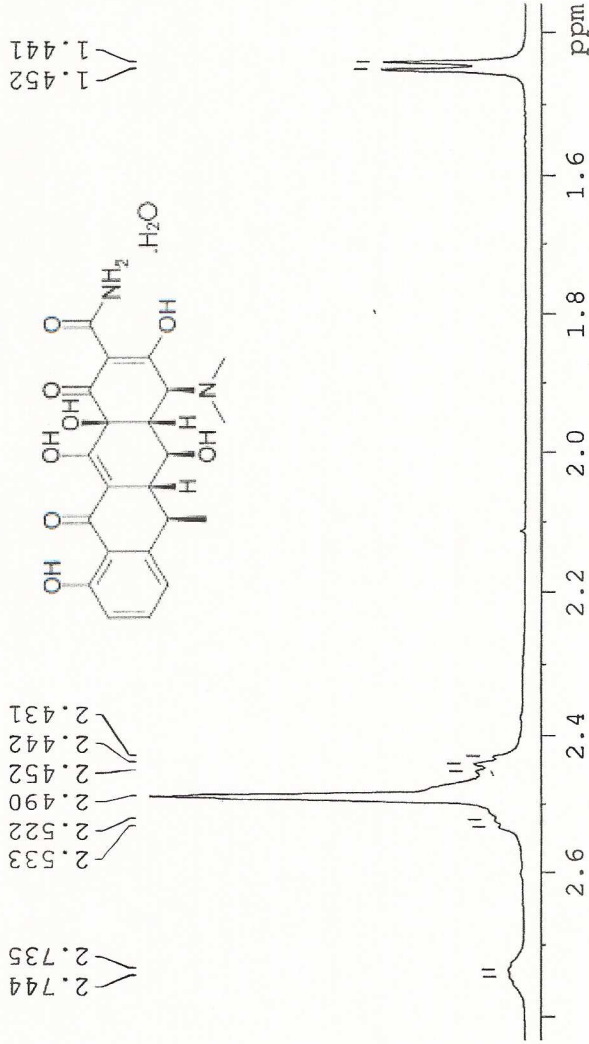
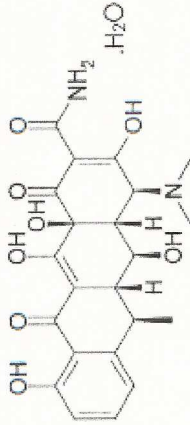
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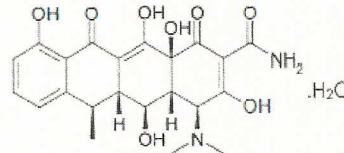
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## HPLC ANALYSIS

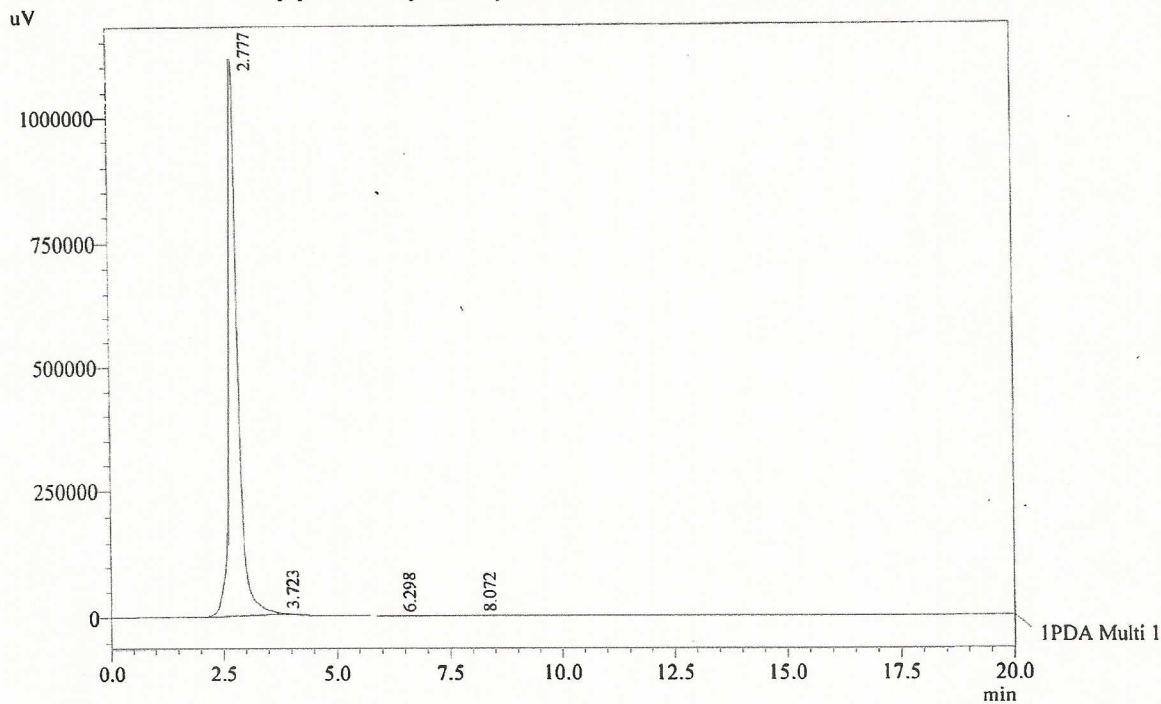
Acquired by : Sanjeev  
 Sample Name : Doxycyclinemonohydrate  
 Sample ID : Lot No: 1104128  
 Injection Volume : 20 uL  
 Data Filename : 060613N.lcd  
 Method Filename : Linear Isocratic.M.lcm



Catalog No.: 08-1350  
 Product Name: Doxycycline monohydrate  
 Lot No.: 1104128

Column : LUNA C-18(2), (250mm x4.6mm 5.0μ)  
 Flow : 1.000 mL/min.  
 Mobile Phase : A(40% of Water) B(60% of Acetonitrile)

Chromatogram  
 Doxycyclinemonohydrate D:\promonence\Data\2013\JUNE-2013\060613N.lcd



1 PDA Multi 1 / 220nm 4nm

PeakTable

PDA Ch1 220nm 4nm

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:2.777	2.777	15383701	99.80	1.00
2	RT:3.723	3.723	21032	0.14	1.34
3	RT:6.295	6.298	7755	0.05	2.27
4	RT:8.096	8.072	1684	0.01	2.91
Total			15414173	100.00	