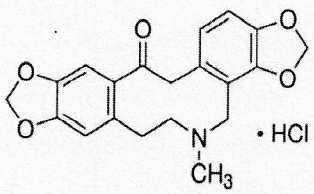
INDOFINE Chemical Company, Inc.
121 Stryker Lane, Bldg. 30, Suite 1 • Hillsborough, NJ 08844 • U.S.A.
Phone: (908) 359-6778 • FAX: (908) 359-1179
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e-mail: chemical@indofinechemical.com

CERTIFICATE OF ANALYSIS

Catalog Number:	021880
Product Name:	**PROTOPINE HYDROCHLORIDE**
CAS Number:	[6164-47-2]
Lot Number:	2502131
Chemical Formula:	$C_{20}H_{19}NO_5 \cdot HCl$
Molecular Weight:	389.83
Appearance:	Light yellow powder
Solubility:	Soluble in Methanol
Storage:	Store in a cool, dry place
Purity(HPLC):	98.11%



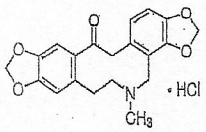
Prepared by:
Ramesh Mandadi
Ramesh Mandadi
Director of Operations

Reviewed and Approved by:
Sujata Moton
Sujata Moton
VP

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HPLC ANALYSIS

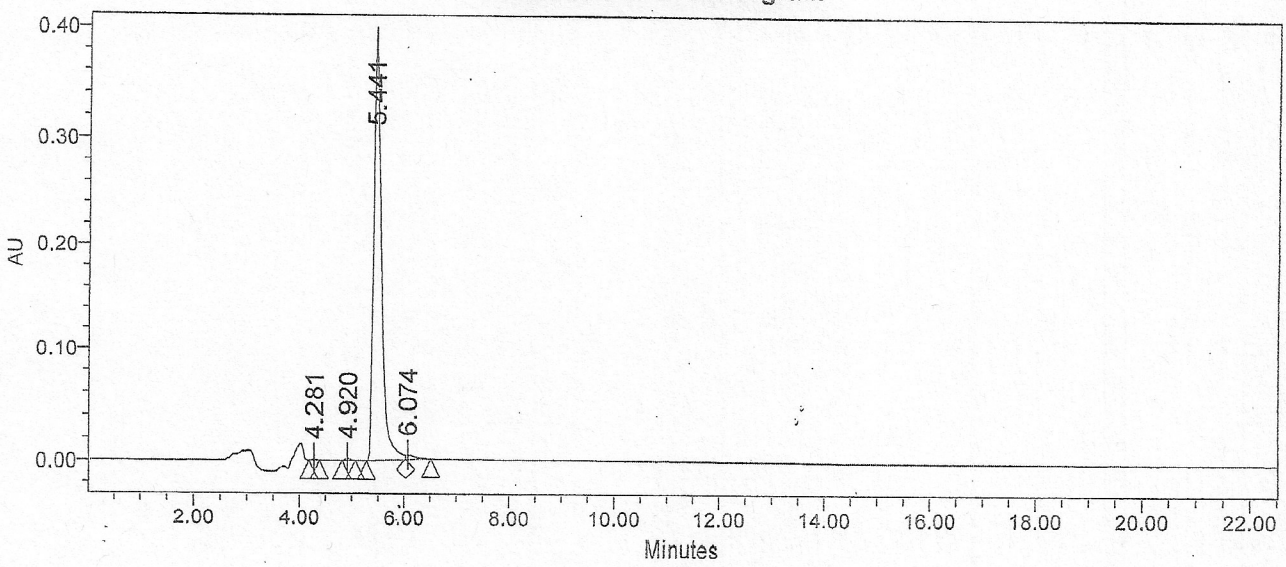


Catalog No.: 021880
Product Name: Protopine hydrochloride
Lot No.: 2502131

SAMPLE INFORMATION

Sample Name:	PH-170915	Acquired By:	QC-LJ
Sample Type:	Unknown	Sample Set Name:	
Vial:	62	Acq. Method Set:	Protopine Hydrochloride
Injection #:	1	Processing Method:	Protopine Hydrochloride
Injection Volume:	10.00 ul	Channel Name:	282.0nm
Run Time:	45.0 Minutes	Proc. Chnl. Descr.:	W2996 PDA 282.0 nm (PDA 200.0
		Instrument number:	LC011

Auto-Scaled Chromatogram



Peak Results

	Name	RT	Area	Height	% Area
1		4.281	8391	1420	0.21
2		4.920	15156	2371	0.37
3		5.441	3999885	393491	98.11
4		6.074	53590	4318	1.31

Mobile phase A: Acetonitrile 33
Mobile phase B: (0.2%TEA + HAc pH=4)Water 67
Flow rate:0.8ml/min
Column temp:30
ChromatographicColumn:Kromasil C18 250*4.6 5um
Solubility:Methanol