BIOTREND Chemicals AG
Unterdorfstr. 21
CH-8602 Wangen / Zurich
Switzerland
Tel + 41 44 805 76 76
Fax +41 44 805 76 77
Email: techserv@biotrend.ch
www.biotrend.ch

Certificate Of Analysis

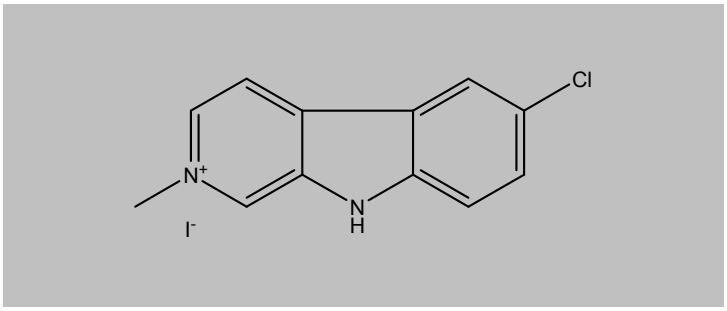
Quality Control Testing and Research Application

COA Preparation Date: 03/11/2014
COA Revision Date: 03/11/2017

Product:	**Nostocarboline iodide**
Cat. No.:	BN0656
Batch No.:	0656BN/01
Chemical Name:	6-Chloro-2-methyl-9*H*-pyrido[3,4-b]indol-2-ium iodide; 6-Chloro-2-methylnorharmane iodide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	$C_{12}H_{10}ClIN_2$
Batch Molecular Weight:	344.58
CAS No.:	
Physical Appearance:	Yellow powder
Melting Point:	
Solubility:	Soluble in water
Storage:	Desiccate at +4° C
Batch Molecular Structure:	



Product Description: **Potent Butyrylcholinesterase (BChE) inhibitor (IC_{50} = 13.2 µM), orginally isolated from the freshwater cyanobacterium Nostoc 78-12A. The inhibitory activity is of the same order of magnitude as that of galanthamine. Very recently, it shows a 50% reduction in parasitaemia at 4 x 50 mg/kg (i.p.) in an *in vivo* Plasmodium berghei mouse model. See also the Des-chloro homologue 2-Methylnorharmane (Cat. No. BN0657).**

(Sold under license from ETH Zürich; Patent applied)

References:

1. Becher et al. (2005) J Nat Prod 68:1793; 2. Blom et al. (2006) Org Lett 8:737; 3. Bonazzi et al. (2010) Bioorg Med Chem 18:1464

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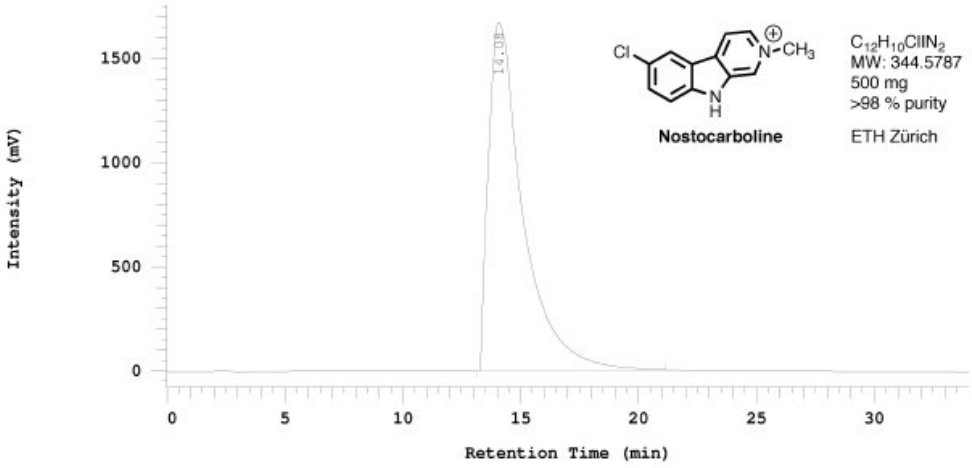
BN0656 Nostocarboline iodide

2. ANALYTICAL DATA

HPLC:	corresponds to the reference
MS:	corresponds to the reference
Tests:	HPLC Assay: > 98% (complies)

Chrom Type: HPLC Channel : 1



Acquisition Method: method1
Column Type: Siehe Vorschrift
Developed by: Damien Barbaras
Pump A Type: L-7100
Solvent A: CH3CN
Solvent B:
Solvent C:
Solvent D: H2O(TFA 0.1%)
Method Description:

Chrom Type: HPLC Channel : 1

Peak Quantitation: AREA
Calculation Method: AREA%

No.	RT	Area	Conc 1	BC
1	14.08	1.698E+08	100.000	BB
		1.698E+08	100.000	

Peak rejection level: 0