

# Analytical Data Sheet

Lot number

## 1020730

not for drug use

<b>Catalog Number</b>	<b>Q-1435.0005</b>
<b>Product number</b>	<b>4031135.0005</b>
<b>Product</b>	<b>Vincamine base</b> (3aS, 5S, 11S) – 3a– Ethyl– 5– hydroxy– 1, 2, 3, 3a, 4, 5, 10, 11b– octahydro– 11H– 5a, 11a– diaza– benzo[cd]fluoranthene– 5– carboxylic acid methyl ester
<b>Molecular formula</b>	$C_{21}H_{26}N_2O_3$
<b>Relative molecular mass</b>	354.45

Tests	Results								
<b>Appearance</b>	slightly yellow, cristalline powder								
<b>Appearance of solution</b>	clear, slightly yellow solution (50 mg/mL in acetic acid 80%)								
<b>Identification (ESI-MS)</b>	m = 354.4 u (average mass)								
<b>Identification (elemental analysis)</b>	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 71.2%</td> <td>C = 71.0%</td> </tr> <tr> <td>H = 7.4%</td> <td>H = 7.6%</td> </tr> <tr> <td>N = 7.9%</td> <td>N = 7.8%</td> </tr> </table>	Theory	Found	C = 71.2%	C = 71.0%	H = 7.4%	H = 7.6%	N = 7.9%	N = 7.8%
Theory	Found								
C = 71.2%	C = 71.0%								
H = 7.4%	H = 7.6%								
N = 7.9%	N = 7.8%								
<b>Melting point</b>	231 °C								
<b>Specific optical rotation</b>	$[\alpha]_D^{24} = +41.8^\circ$ (1% in pyridine)								
<b>Purity (HPLC)</b>	99.8% (TFA)								
<b>Purity (TLC)</b>	> 99%								
<b>TLC conditions</b>	n–butanol/acetic acid/H <sub>2</sub> O 4/2/2 isopropanol/ammonia conc. 1/1 chloroform/methanol/acetic acid 32% 5/3/1 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB								
<b>Assay (titration)</b>	99.6% (HClO <sub>4</sub> )								
Latest update: November 25, 2008									