

# Certificate of analysis



## MN-25

7-methoxy-1-[2-(4-morpholinyl)ethyl]-N-[(1S,2S,4R)-1,3,3-trimethylbicyclo[2.2.1]hept-2-yl]-1H-indole-3-carb oxamide

Item number ....:14249  
Batch number :0451455  
Purity Specification.....>95%

Molecular Formula: C<sub>26</sub>H<sub>37</sub>N<sub>3</sub>O<sub>3</sub>  
CAS Number .....: 501926-82-5

Formula Weight: 439.60  
Expiry date .....: 9/19/2015

| Tests         | Specifications   | Results   |
|---------------|--|---|
| HPLC          | Column .....: C18, 5 $\mu$ , 4.6 X 250 mm<br>Mob. Phase.....: Acetonitrile:Water:TFA (90:10:0.1)<br>Flow Rate.....: 1.00 ml/min<br>Detector UV .....: 210 nm | Retention Time Actual.: 7.70 min<br>Purity .....: 100.0 % |
| IR            | Conforms with standard   | Conforms  |
| Mass          | Source Type .....: ESI<br>MH+  | Expected<br>440.4<br>Actual<br>440.4                      |
| Melting Point | 60 - 70 °C   | 64 - 68 °C  |
| TLC           | Mob. Phase.....: Dichloromethane:Methanol:Ammonium Hydroxide (95:5:1)<br>Stationary Phase: Silica Gel<br>Visualized With ..: Sulfuric Acid                   | Rf .....: 0.31<br>Purity % .....: 100.00                  |
| UV            | max .....: 291, 217 nm   | max .....: 291, 217 nm                                    |

Analyzed by: Ashley Macey

Approved by: Libby Perry