1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** $\text{C}_{26}\text{H}_{26}\text{N}_{2}\text{O}_{3}\text{.HCl.1}\frac{3}{4}\text{H}_{2}\text{O}$

**Batch Molecular Weight:** 482.48

**Physical Appearance:** Beige solid

**Solubility:**
- Water to 25 mM
- DMSO to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**

2. ANALYTICAL DATA

**TLC:** $R_f = 0.4$ (Chloroform:Methanol:Ammonia soln. [10:1:0.1])

**HPLC:** Shows 100% purity

**$^1\text{H NMR:}** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>64.72</td>
<td>64.78</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>6.37</td>
<td>6.4</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>5.81</td>
<td>5.86</td>
</tr>
</tbody>
</table>
Product Name: Naltrindole hydrochloride

Catalog No.: 0740
Batch No.: 14

CAS Number: 111469-81-9
IUPAC Name: 17-(Cyclopropylmethyl)-6,7-dehydro-4,5α-epoxy-3,14-dihydroxy-6,7-2',3'-indolomorphinan hydrochloride

Description:
Highly selective non-peptide δ opioid antagonist, showing 223- and 346-fold greater activity at δ than at μ and κ opioid receptors.

Physical and Chemical Properties:
Batch Molecular Formula: C_{26}H_{26}N_{2}O_{3}.HCl.1¾H_{2}O
Batch Molecular Weight: 482.48
Physical Appearance: Beige solid
Minimum Purity: >99%

Storage: Store at -20°C

Solubility & Usage Info:
- Water to 25 mM
- DMSO to 100 mM

Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Other Information:
INFORMATION FOR CUSTOMERS IN THE USA ONLY
This product is a Schedule II DEA controlled substance and customers in the USA are required to hold a controlled substance registration in order to purchase and possess this material (in accordance with Title 21 code of federal regulations part 1300 to end).

Licensing Information:
Sold with the permission of the University of Minnesota.

References:
