1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{20}\text{H}_{23}\text{NO}_{4}\cdot\text{HCl} \cdot \frac{3}{4}\text{H}_2\text{O} \)

Batch Molecular Weight: 391.38

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Store at RT

2. ANALYTICAL DATA

HPLC: Shows 100% purity

\(^1\text{H} \) NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: \([\alpha]_D = -188\) (Concentration = 2.5, Solvent = Water)

Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>61.38</td>
<td>6.57</td>
<td>3.58</td>
</tr>
<tr>
<td>Found</td>
<td>61.51</td>
<td>6.45</td>
<td>3.65</td>
</tr>
</tbody>
</table>
Product Name: Naltrexone hydrochloride
Catalog No.: 0677
Batch No.: 6

CAS Number: 16676-29-2
EC Number: 240-723-0

IUPAC Name: (5α)-17-(Cyclopropylmethyl)-4,5-epoxy-3,14-dihydmorphan-6-one hydrochloride

Description:
Opioid antagonist.

Physical and Chemical Properties:
Batch Molecular Formula: C₂₀H₂₇NO₄·HCl·½H₂O
Batch Molecular Weight: 391.38
Physical Appearance: White solid
Minimum Purity: >99%

Batch Molecular Structure:

![Molecular Structure](image)

Storage: Store at RT

Solubility & Usage Info:
water 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.

References: