1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** \( C_{22}H_{34}N_4O \cdot 3HCl \)

**Batch Molecular Weight:** 479.91

**Physical Appearance:** White solid

**Solubility:** water to 100 mM

**Storage:** Desiccate at +4°C

2. ANALYTICAL DATA

**TLC:** \( R_f = 0.09 \) (Isopropanol:Ammonia solution:Water [12:2:1])

**HPLC:** Shows >98.8% purity

**\(^1\)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>55.06</td>
<td>54.84</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>7.77</td>
<td>7.86</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>11.67</td>
<td>11.53</td>
</tr>
</tbody>
</table>
**Product Information**

**Product Name:** Naspm trihydrochloride  
**Catalog No.:** 2766  
**Batch No.:** 3

**CAS Number:** 1049731-36-3  
**IUPAC Name:** N-[3-[4-[(3-Aminopropyl)amino]butyl]amino]propyl]-1-naphthaleneacetamide trihydrochloride

**Description:**  
Selective antagonist of Ca²⁺-permeable AMPA receptors; blocks AMPA receptors lacking the GluR2 subunit. Protects hippocampal neurons against global ischemia-induced cell death.

**Physical and Chemical Properties:**  
- **Batch Molecular Formula:** C₂₂H₃₂N₄O₃HCl  
- **Batch Molecular Weight:** 479.91  
- **Physical Appearance:** White solid  
- **Minimum Purity:** >97%  

**Storage:** Desiccate at +4°C

**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:**  