1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** \( C_{24}H_{34}N_2O \cdot HCl \cdot H_2O \)
- **Batch Molecular Weight:** 421.02
- **Physical Appearance:** Pink solid
- **Solubility:** DMSO to 100 mM
- **Storage:** Desiccate at RT

2. ANALYTICAL DATA

- **HPLC:** Shows 99.8% purity
- **\(^1\)H NMR:** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Microanalysis:**
  
<table>
<thead>
<tr>
<th>Experimental</th>
<th>Theoretical</th>
<th>Error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>68.47</td>
<td>0.22</td>
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<tr>
<td>Hydrogen</td>
<td>8.86</td>
<td>0.02</td>
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<tr>
<td>Nitrogen</td>
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<tr>
<td>Found</td>
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<td>0.08</td>
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<tr>
<td></td>
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</table>
Product Name: Bepridil hydrochloride
Catalog No.: 4117  Batch No.: 2

CAS Number: 68099-86-5
IUPAC Name: N-Benzyl-N-(3-isobutoxy-2-pyrrolidin-1-yl-propyl)aniline hydrochloride

Description:
Calcium channel blocker. Also inhibits Na⁺/Ca²⁺ exchange (NCX), sodium channels and cardiac sarcolemmal K_{ATP} channels; opens mitochondrial K_{ATP} channels. Antiarrhythmic and antihypertensive; acts as a calcium sensitizer.

Physical and Chemical Properties:
Batch Molecular Formula: C_{24}H_{34}N_{2}O.HCl.H_{2}O
Batch Molecular Weight: 421.02
Physical Appearance: Pink solid
Minimum Purity: >99%

Storage: Desiccate at RT

Solubility & Usage Info:
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.

References: