1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C_{20}H_{21}FN_{2}O.HBr

**Batch Molecular Weight:** 405.31

**Physical Appearance:** White solid

**Solubility:**
- ethanol to 50 mM
- water to 10 mM

**Storage:** Store at RT

**Batch Molecular Structure:**

![Molecular Structure](image)

2. ANALYTICAL DATA

**TLC:** $R_f = 0.37$ (Dichloromethane:Methanol:Ammonia soln. [9:1:0.1])

**Melting Point:** Between 189 - 192°C

**HPLC:** Shows 100% purity

**$^1$H NMR:** Consistent with structure

**Microanalysis:**

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>59.26</td>
<td>59.22</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>5.47</td>
<td>5.46</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>6.91</td>
<td>6.97</td>
</tr>
</tbody>
</table>
Product Name: Citalopram hydrobromide
Catalog No.: 1427
Batch No.: 1
EC Number: 261-891-1

CAS Number: 59729-32-7
IUPAC Name: 1-[3-(dimethylamino)propyl]-1-(4-fluorophenyl)-1,3-dihydro-5-isobenzofurancarbonitrile hydrobromide

Description:
Citalopram hydrobromide is a highly selective and potent 5-HT uptake inhibitor with no effect on noradrenalin or dopamine uptake (IC$_{50}$ values are 1.8, 8800 and 41000 nM respectively). Has negligible activity at a wide range of receptors.

Physical and Chemical Properties:
Batch Molecular Formula: C$_{20}$H$_{22}$FN$_2$O.HBr
Batch Molecular Weight: 405.31
Physical Appearance: White solid
Minimum Purity: ≥99%

Storage: Store at RT

Solubility & Usage Info:
ethanol to 50 mM
water to 10 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:
