Product Name: Clindamycin Hydrochloride
Catalog No.: 4822
Batch No.: 1

CAS Number: 21462-39-5
IUPAC Name: Methyl-7-chloro-6,7,8-trideoxy-6-[[[2S,4R]-1-methyl-4-propyl-2-pyrrolidinyl][carbonyl]amino]-1-thio-L-threo-α-D-galacto-octopyranoside hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

   **Batch Molecular Formula:** C_{18}H_{33}ClN_{2}O_{5}S.HCl.1\frac{1}{4}H_{2}O
   **Batch Molecular Weight:** 483.96
   **Physical Appearance:** White solid
   **Solubility:** DMSO to 100 mM
   **Storage:** Store at -20°C
   **Batch Molecular Structure:**

2. ANALYTICAL DATA

   **HPLC:** Shows 100% purity
   **¹H NMR:** Consistent with structure
   **Mass Spectrum:** Consistent with structure
   **Microanalysis:**

<table>
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<tr>
<th>Element</th>
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<th>Found</th>
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<td>Chlorine</td>
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<td>14.78</td>
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</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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### Product Information

**Product Name:** Clindamycin Hydrochloride  
**Catalog No.:** 4822  
**Batch No.:** 1

**Description:**
Lincosamide antibiotic. Inhibits protein synthesis by binding to the 50S ribosomal subunit and preventing early peptide chain elongation in bacteria.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C_{18}H_{33}ClN_{2}O_{4}S.HCl.1\frac{1}{4}H_{2}O
- **Batch Molecular Weight:** 483.96  
- **Physical Appearance:** White solid  
- **Minimum Purity:** >98%

**Storage:** Store at -20°C

**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:**