1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** \( \text{C}_8\text{H}_{15}\text{N}_3\text{O}_7 \)
- **Batch Molecular Weight:** 265.22
- **Physical Appearance:** White solid
- **Solubility:**
  - water to 100 mM
  - DMSO to 100 mM
- **Storage:** Store at -20°C
- **Batch Molecular Structure:**

2. ANALYTICAL DATA

- **HPLC:** Shows 96.8% purity
- **\(^1\)H NMR:** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Optical Rotation:** \([\alpha]_D = +58.2\) (Concentration = 1, Solvent = water)
- **Microanalysis:**
  - Carbon: Theoretical 36.23, Found 36.2
  - Hydrogen: Theoretical 5.7, Found 5.75
  - Nitrogen: Theoretical 15.84, Found 15.62
Product Name: Streptozocin
CAS Number: 18883-66-4
IUPAC Name: 2-Deoxy-2-[[[(methyl nitrosoamino)carbonyl]amino]-D-glucose

Description:

Physical and Chemical Properties:
- Batch Molecular Formula: C<sub>9</sub>H<sub>11</sub>N<sub>3</sub>O<sub>7</sub>
- Batch Molecular Weight: 265.22
- Physical Appearance: White solid

Minimum Purity: >95%

Storage: Store at -20°C

Solubility & Usage Info:
- water to 100 mM
- DMSO to 100 mM
- ANTINEOPLASTIC SUBSTANCE - TREAT AS EXTREMELY POISONOUS

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: