**Product Name:** CL 316243 disodium salt  
**Catalog No.:** 1499  
**Batch No.:** 8

**CAS Number:** 151126-84-0  
**IUPAC Name:** 5-[(2R)-2-[[2R)-2-(3-Chlorophenyl)-2-hydroxyethyl]amino]propyl]-1,3-benzodioxole-2,2-dicarboxylic acid disodium salt

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** $\text{C}_{20}\text{H}_{18}\text{ClNNa}_{2}\text{O}_{7} \cdot \frac{1}{4}\text{H}_{2}\text{O}$  
**Batch Molecular Weight:** 488.32  
**Physical Appearance:** Pale yellow solid  
**Solubility:** water to 100 mM  
**Storage:** Desiccate at -20°C  
**Batch Molecular Structure:**

![Molecular Structure](image)

### 2. ANALYTICAL DATA

**TLC:** $R_f = 0.33$ (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])  
**HPLC:** Shows 98.1% purity  
**$^1\text{H NMR:}$** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

<table>
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*Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use*
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Description:
Potent and highly selective β_3-adrenoceptor agonist (EC_{50} = 3 nM); > 10000-fold selective over β_1 and β_2 receptors. Increases brown adipose tissue thermogenesis and metabolic rate, and decreases blood insulin and glucose levels following oral administration in vivo.

Physical and Chemical Properties:
Batch Molecular Formula: C_{20}H_{19}ClNNaO_7.1\frac{1}{4}H_2O
Batch Molecular Weight: 488.32
Physical Appearance: Pale yellow solid
Minimum Purity: >96%

Storage: Desiccate at -20°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:
