Product Name: Tetrodotoxin citrate
CAS Number: 18660-81-6
IUPAC Name: Octahydro-12-(hydroxymethyl)-2-imino-5,7,9,10a-dimethano-10H-[1,3]dioxocino[6,5-d]pyrimidine-4,7,10,11,12-pentol citrate

1. PHYSICAL AND CHEMICAL PROPERTIES
   Batch Molecular Formula: \( \text{C}_{11}\text{H}_{17}\text{N}_{3}\text{O}_{8} \)
   Batch Molecular Weight: 319.27
   Physical Appearance: White lyophilised solid
   Solubility: water to 100 mM
   Storage: Desiccate at -20°C
   Batch Molecular Structure:

2. ANALYTICAL DATA
   HPLC: Shows >99% purity
Product Information

Product Name: Tetrodotoxin citrate
Catalog No.: 1069  Batch No.: 51

Description:
Highly selective, reversible sodium channel blocker; citrate salt of tetrodotoxin.

Physical and Chemical Properties:
Batch Molecular Formula: C_{11}H_{17}N_{2}O_{6}
Batch Molecular Weight: 319.27
Physical Appearance: White lyophilised solid

Storage: Desiccate at -20°C

Solubility & Usage Info:
water to 100 mM
The vial contains 1mg of tetrodotoxin and 5mg of citrate buffer, pH 4.8.

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.

Other Information:
This is a dual-use item with associated conditions of supply; the relevant licence/documentation from the appropriate governing body will be required.

Note on Biotubes:
Toxins are supplied in protective biotubes. These biotubes have a screw top lid, which is manually tightened and can be easily unscrewed. If the lid is particularly tight, a coin placed in the top slot may be used to unscrew it.

References:
Merck Index 12 9382.