

## Certificate Of Analysis

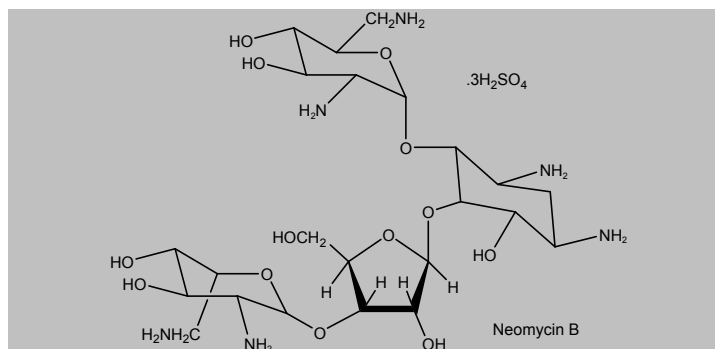
### Quality Control Testing and Research Application

COA Preparation Date: 08/08/2014  
COA Revision Date: 08/08/2017

**Product:** Neomycin sulfate  
**Cat. No.:** BG0441  
**Batch No.:** 0441BG/02  
**Chemical Name:**

#### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:**  $C_{23}H_{46}N_6O_{13} \cdot 3H_2SO_4$   
**Batch Molecular Weight:** 908.88  
**CAS No.:** [1405-10-3]  
**Physical Appearance:** White to off-white solid  
**Melting Point:**  
**Solubility:** Soluble to 10 mg/ml in water  
**Storage:**  $-20^{\circ} C$   
**Batch Molecular Structure:**



**Product Description:** **An Aminoglycoside antibiotic. It inhibits Phospholipase C ( $IC_{50} = 1-10 \mu M$ ) via binding to Inositol phospholipids and also inhibits Phosphatidylcholine-PLD activity ( $IC_{50} = 65 \mu M$ ). It induces  $Ca^{2+}$  mobilization and Phospholipase  $A_2$  activation in human platelets.**

**References:** 1. Griffin et al. (1980) J Neurochem 34:750; 2. Vergara et al. (1985) Proc Natl Acad Sci USA 82:6352; 3. Carney et al. (1985) Cell 42:479; 4. Gabev et al. (1989) Biochim Biophys Acta 979:105; 5. Liscovitch et al. (1991) Biochem J 279:319; 6. Nakashima et al. (1987) Biochem Biophys Res Commun 146:820

- CAUTION - Not fully tested. For Research use only. Not for human use. -



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**BG0441 Neomycin sulfate**

**2. ANALYTICAL DATA**

HPLC: corresponds to the reference

MS: corresponds to the reference

Tests: HPLC assay: >98% (complies)

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