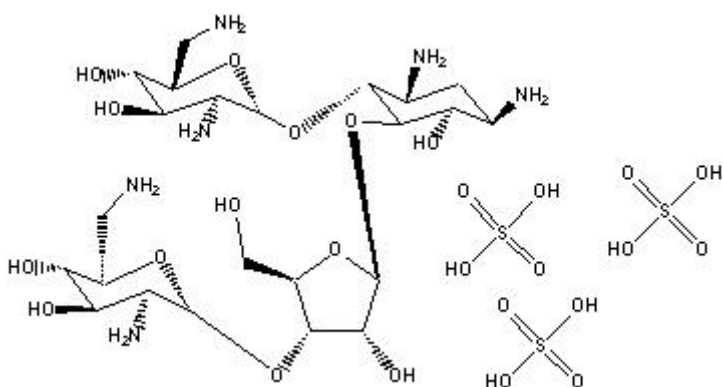


## TECHNICAL INFORMATION

Catalog Number: 100541, 194533

### Neomycin sulfate

#### Structure:



**Molecular Formula:** C<sub>23</sub>H<sub>46</sub>N<sub>6</sub>O<sub>13</sub> · 3H<sub>2</sub>SO<sub>4</sub>

**Molecular Weight:** 908.9

**CAS #:** 1405-10-3

**Synonyms:** Neomycin B sulfate; Bykomcyin; Endomixin; Fraquinol; Mycaine; Neosulf; Neomix

**Physical Description:** White to slightly yellow powder

**Activity/Potency:** A minimum of 630 ug/mg (as-is).

**Solubility:** Soluble in water (6.3 mg/ml), methanol (0.225 mg/ml), ethanol (0.095 mg/ml), isopropanol (0.082 mg/ml), isoamyl alcohol (0.247 mg/ml) and benzene (0.05 mg/ml). Insoluble in acetone, ether and chloroform. Aqueous solutions are fairly stable at pH 2 to 9. Solutions can be aliquoted and stored at -20°C or below for approximately 3 to 4 months.

**Description:** Antibiotic. Works against gram positive and negative bacteria usually at a concentration of 50 mg/liter. Causes miscoding and inhibits initiation and elongation; can act as an inhibitor of protein biosynthesis. Generally stable at 37°C for about 5 days.<sup>2</sup>

#### Availability:

Catalog Number	Description	Size
100541	Neomycin Sulfate	1 g 5 g 10 g 25 g 100 g
194533	Neomycin Sulfate, cell culture reagent	1 g 5 g 10 g 25 g 100 g

## References:

- *Merck Index*, **12th Ed.**, No. 6542.
- Perlman, D., "Use of Antibiotics in cell culture media." *Methods in Enzymology: Cell Culture*, Jakoby, W.B. and Pastan, I.H. (eds.), Academic Press: New York, p. 112 (1979).