

Cat # ABT-360-05  
Cat # ABT-360-10

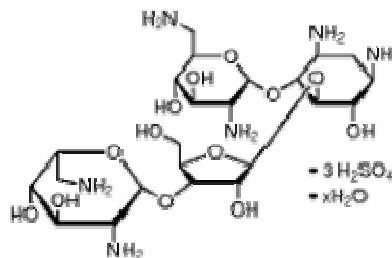
Neomycin, Sulfate (Pharma Grade)  
Neomycin, Sulfate (Pharma Grade)

Size: 10 g  
Size: 100 g

### General Information

Neomycin is an aminoglycoside antibiotic that is found in many topical medications such as creams, ointments, and eyedrops. Neomycin is overwhelmingly used as a topical preparation, such as Neosporin. It can also be given orally, where it is usually combined with other antibiotics. Neomycin is not absorbed from the gastrointestinal tract and has been used as a preventive measure for hepatic encephalopathy and hypercholesterolemia. By killing bacteria in the intestinal tract, it keeps ammonia levels low and prevents hepatic encephalopathy, especially prior to GI surgery.

Similar to other aminoglycosides, neomycin has excellent activity against Gram-negative bacteria, and has partial activity against Gram-positive bacteria. It is relatively toxic to humans, and many people have allergic reactions to it. Physicians sometimes recommend using antibiotic ointments without neomycin, such as Polysporin.



Molecular Formula:  
 $C_{23}H_{46}N_6O_{13} \cdot 3H_2SO_4 \cdot xH_2O$   
Molecular Weight:  
908.88 g/mol

| Analysis Test             | Specification                | Results             |
|---------------------------|------------------------------|---------------------|
| Description               | white or almost white powder | almost white powder |
| Chromogenic reaction      | Display cherry-red           | Display cherry-red  |
| Identification            | Comply with the standard     | Complies            |
| Specific optical rotation | +53.5°~+59.0°                | +56.5°              |
| PH                        | 5.0~7.0                      | 5.0~7.0             |
| Sulfated ash              | ≤1.0%                        | ≤1.0%               |
| Sulfate(on dried basis)   | 27.0%~31.0%                  | 29.8%               |
| Neamine A                 | Should comply                | Complies            |
| Loss on drying            | ≤6.0%                        | 5.2%                |
| Residue on ignition       | ≤1.0%                        | 0.03%               |
| Potency (dried substance) | ≥650 IU/mg                   | 680IU/mg            |
| Solubility                | H <sub>2</sub> O: 50 mg/mL   |                     |

**ABT-360-05**

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