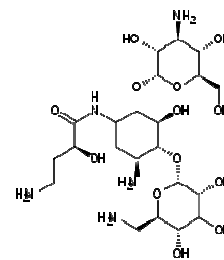


Product Data Sheet

Cat # ABT-010-01	Amikacin, Sulfate (Pharma Grade), antibacterial	Size: 1 g
Cat # ABT-010-10	Amikacin, Sulfate (Pharma Grade), antibacterial	Size: 10 g & (Bulk, custom)

**General Information**

Amikacin is a semisynthetic, aminoglycoside antibiotic that is derived from kanamycin A. Its range of activity is similar to that of gentamicin. Amikacin has particular activity against many strains of Gram negative bacteria. It has also been reported to be active against some staphylococci and mycobacteria strains, including *Mycobacterium tuberculosis* and *Nocardia asteroides*. The minimum inhibitory concentration (MIC) range towards the most sensitive organisms has been reported at 0.1 - 8 µg/ml.<sup>1,2</sup> The incubation of arachidonate-enriched rabbit serum with multidrug-resistant strains of *Pseudomonas aeruginosa* in the presence of ceftazidime and amikacin has been studied.<sup>3</sup> Cultures of apical-medial segments of organ of Corti from amikacin-treated rats have been investigated to probe the potential role of growth factors in the survival and differentiation of atypical Deiters' cells and in the stimulation of hair cell regeneration processes *in vitro*.<sup>4</sup> Amikacin treatment has been used in a study of the interactions of cultured C57BL/6 mouse pulmonary epithelial cells and cultured HeLa cells with *Nocardia asteroides* GUH-2.5 An LC-ECD method for the analysis of amikacin has been published.<sup>6</sup> An HPCE/fluorescence technique for the detection of amakacin in plasma has been described.



**Mol Formula:**  
(C<sub>22</sub>H<sub>43</sub>N<sub>5</sub>O<sub>13</sub>)  
**Mol. Weight:**  
585.603 g/mol

Test Items	Standard	Results
Aspect	white or off-white crystalline powder	white crystalline powder
Identification (thin layer chromatography )	Should comply	Complies
Chromogenic reation	Display red	Display red
Wavelength detection	300nm~400nm	340nm
Water	≤0.5%	0.40%
Loss on drying	≤7%	4.5%
Residue on ignition	≤0.5%	0.19%
Bacteria endotoxin	≤0.33EU/1mg	Complies
Sterile	Should comply	Complies
Solubility	50mg/ml of water	
Assay(on the dried basis)	73.0%~78.4%	98.5%
Conclusion	The product is tested in accordance with QB. The Results Complies	

**Usage:** This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**ABT-010-01**

**110531AO**

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