

Product Data Sheet

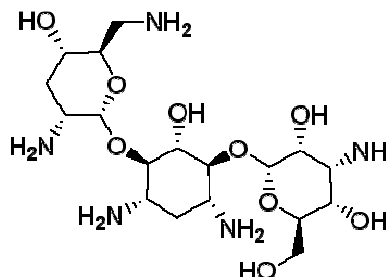
Cat # ABT-250-010
Cat # ABT-250-001

Tobramycin Base (Pharma Grade)
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Size: 1 g
Size: 100 mg

General Information

Tobramycin is an aminoglycoside antibiotic used to treat various types of bacterial infections, particularly Gram-negative infections. Tobramycin works by binding to a site on the bacterial 30S and 50S ribosome, preventing formation of the 70S complex. As a result, mRNA cannot be translated into protein and cell death ensues. Tobramycin is preferred over gentamicin for *Pseudomonas aeruginosa* pneumonia due to better lung penetration and bactericidal activity.



Molecular Formula:
C₁₈H₃₇N₅O₉
Molecular Weight:
467.51g/mol

Analysis Test	Specification	Results
Description	white or almost white powder	almost white powder
Identification IR	Conforms to standard	Conforms
Clarity and color of solution	Should comply	Complies
Solubility	50mg/ml, water	Colorless to faint yellow
Specific optical rotation	+138°~+148°	+142°
PH	9.0~11.0	10.0
Melting point(°C)	178 °C	178 °C
Water	≤8.0%	≤8.0%
Heavy metal	≤30ppm	< 30 ppm
Residue on ignition	≤0.3%	0.09%
Bacterial endotoxins	≤2EU/mg	Complies
Related substances(dried substance)	individual impurity≤0.5%	Complies
	Total impurities≤1.5%	
Potency(u/mg)(dried substance)	≥900ug/mg	≥900ug/mg
Conclusion	The results conforms to USP	

ABT-250-001

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India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444
Email: customerservice@lifetechindia.com Website: www.lifetechindia.com