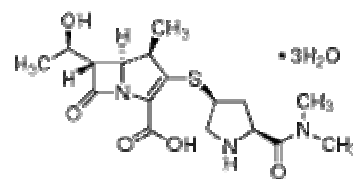


Product Data Sheet

<input type="checkbox"/> Cat # ABT-640-002	Meropenem (Pharma Grade)	Size: 250 mg
<input type="checkbox"/> Cat # ABT-640-005	Meropenem (Pharma Grade)	Size: 50 mg

General Information

Meropenem is an ultra-broad spectrum injectable antibiotic used to treat a wide variety of infections, including meningitis and pneumonia. It is a beta-lactam and belongs to the subgroup of carbapenem, similar to imipenem and ertapenem. It penetrates well into many tissues and body fluids including the cerebrospinal fluid, bile, heart valves, lung, and peritoneal fluid. Meropenem is bactericidal except against *Listeria monocytogenes* where it is bacteriostatic. It inhibits bacterial wall synthesis like other beta-lactam antibiotics. In contrast to other beta-lactams, it is highly resistant to degradation by beta-lactamases or cephalosporinases. Resistance generally arises due to mutations in penicillin binding proteins, production of metallo-beta-lactamases, or resistance to diffusion across the bacterial outer membrane. Unlike imipenem, it is stable to dehydropeptidase-1 and can therefore be given without cilastatin.



Molecular Formula:
 $C_{17}H_{25}N_3O_5S \cdot 3H_2O$
Molecular Weight:
437.51 g/mol

Analysis Test	Specification	Results
Description	white or slight yellow crystalline powder	slight yellow crystalline powder
Identification	Comply with the standard	Complies
Specific optical rotation	-17°~-21°	-19°
Acidity	4.0~6.0	5.5
Clarity and color of solution	Should comply	Complies
Water	11.4%~13.4%	Complies
Heavy metals	≤20ppm	<10ppm
Residue on ignition	≤0.2%	0.09%
Bacterial endotoxins	≤0.12EU/1mg	Complies
Sterile	Should comply	Complies
Related substances	Individual impurity≤0.5%	Complies
	Total impurities≤1.5%	
Methylene chloride	Should comply	Complies
Acetone	Should comply	Complies
Assay(on dried basis)	≥92.0%	98.0%
Conclusion		QC Passed

ABT-640-002

110523AO

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