CEFIDEROCOL

Trade Name	Fetroja®				
Class	Extended Spectrum Cephalosporin Antibiotic				
Mechanism of Action	Inhibits bacterial wall synthesis				
Indications Individual ID approval required for full treatment course	Resistant gram-negative infections To be used only on advice of Infectious Disease Consultant				
Contraindications	Known hypersensitivity to cephalosporins				
Supplied As	Injection:1 gram of white lyophilised powder in a clear glass vial				
Dilution Caution 2 step dilution process	Step 1. Add 10 mL sodium chloride 0.9% to the vial, and shake gently to dissolve, then wait for the bubbles to disperse				
	Drug	Sodium Chloride 0.9%	Volume*	Concentration	
	1 gram	10 mL	11.2 mL	89 mg/mL (approximately)	
	*Note: Displacement value of the powder is 1.2 mL Step 2. Take 1 mL (89 mg) of the solution in step 1 and add 7.9 mL of sodium chloride 0.9% to give a final concentration of 10 mg/mL				
	Drug	Sodium Chloride Added	Final Volume	Final Concentration	
	1 mL (= 89mg)	7.9 mL	8.9 mL	10 mg/mL	
Dosage	Loading dose: 60 mg/kg Maintenance Dose: 30 - 40 mg/kg/dose ^(see refs 3,4,5)				
Interval	Eight hourly dosing				
Administration	Intravenous infusion over 3 hours				
Compatible With	Solution: sodium chloride 0.9%, glucose 5% Y-site: No information available				

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Incompatible With	No information available There is no information on compatibility with TPN or SMOF lipid, please use a separate line if at all possible.		
Interactions	May cause false positive results when performing dipstick tests for urine protein, ketones occult blood etc		
Monitoring	Biochem, renal function, liver function tests Watch for diarrhoea and skin reactions		
Stability	Use immediately after reconstitution of the vial and discard the remainder.		
Storage	Unopened vials should be stored in the fridge at between $2 - 8^{\circ}$ Celsius. Manufacturers Expiry.		
Adverse Reactions	GI upset: diarrhoea, constipation, nausea vomiting Skin reactions: rash, infusion site reactions, Candidiasis, cough, increased liver function test results, headache, hypokalaemia,		
Metabolism	Renally cleared, elimination half life (adults) = 2-3 hours		
Comments	Section 29 medicine – not currently registered for use in NZ		
References	 Product Data Sheet Manufacturer = Shionogi & Co Ltd Injectable Drug Handbook from Children's Hospital at Westmead, Sydney, Australia Koirala A et al Successful use of Cefiderocol to treat a Multi-drug resistant Stenorophomonas maltophilia, ventilator associated pneumonia in an extremely preterm neonate. The Paediatric Infectious Disease Journal 2023. https://www.semanticscholar.org/paper/Successful-Use-of- Cefiderocol-to-Treat-a-Pneumonia-Koirala- Krishnappa/583c52c0ed2a4fb95c83623664fbc986dbcab0d3 Dosing advice re previous treatment of a neonate in Sydney- email conversation with Bradley Rockliff, Senior Pharmacist, Infectious Diseases and Antimicrobial Stewardship, Children's Hospital at Westmead Sydney 28 March 2024 Monari C et al. Bloodstream Infection Due to a VIM Metallo B- lactamase Producing Klesiella pneumoniae, Treated with Cefiderocol in a Preterm Newborn. Infectious Diseases 2023 (12) 727-734. https://link.springer.com/article/10.1007/s40121-022-0073 		
Updated By	B Robertshawe, N Austin March 2024		

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