



SODIUM ACETATE

Read in conjunction with **Disclaimer**

Formulary: Restricted Requires Neonatologist review within 24 hours of initiation.							
Presentation	Presentation Ampoule: Sodium acetate 16.4% (1.64 g/10 mL). Each 1 mL contains 2 mmol of sodium and 2 mmol of acetate.						
Classification	Electrolyte						
Indication	Maintenance of central and umbilical catheter line patency for extreme preterm neonates born less than 25 weeks gestational age.						
Special Considerations	 Use with caution in patients with: Hypernatraemia. Renal impairment – increased risk of hypernatremia. Severe hepatic impairment. Fluid overload – can worsen. Metabolic or respiratory alkalosis – can worsen. 						
Monitoring	Blood gas monitoring of acid base status and electrolytes.						
Compatibility	Fluids: Water for injection, sodium chloride 0.9%, glucose 5%. Y site compatible: Labetalol. Limited data available for other medications, contact pharmacy.						
Incompatibility	Fluids: No information. Y site incompatible: Amiodarone, caspofungin, hydralazine. This list may not be exhaustive, contact pharmacy for further information.						
	Metabolic alkalosis, hypernatraemia, hypokalaemia, fluid overload (associated with rapid infusion).						
Side Effects	Note: Some references refer to aluminium toxicity from leaching of aluminium from glass ampoule. This is not noted in the Australian product information and unlikely to be a concern when using TGA registered sodium acetate.						
Storage	Ampoule: Store at room temperature, below 30°C.						

	Presentation	Ampoule: Sodium acetate 16.4% (1.64 g/10 mL). Each 1 mL contains 2 mmol of sodium and 2 mmol of acetate.		
CONTINUOUS INFUSION		Prescribe sodium acetate infusion on the Continuous Intravenous Infusion Chart (MR725.01/MR828.02).		
	Dosage	The continuous infusion should be prescribed to		
		 contain: 4 mmol of sodium acetate and, 25 units of heparin, made to a final volume of 50 mL with water for injection. 		
		Prescribed rate: 0.5 mL/hour = 0.04 mmol of sodium and acetate ions per hour.		
	Preparation	 Required for preparation: Sodium acetate 16.4% ampoule. Heparinised Saline ampoule containing 50 units/5 mL of heparin. Water for injection. Dilution steps: Measure 45.5 mL of water for injection into a syringe. Measure and add 2.5 mL (25 units) of Heparinised Saline. 		
		Double check heparin concentration: Use Heparinised Saline 50 units/5 mL ampoule.		
		3. Measure and add 2 mL (4 mmol) of sodium acetate.		
		Final volume is 50 mL with final concentrations of: Sodium acetate 0.08 mmol/mL and, Heparin 0.5 units/mL. 		
	Administration	Infuse via syringe driver pump at a rate of 0.5 mL/hour.		
	Comment	Osmolarity of the above sodium acetate preparation is similar to sodium chloride 0.45% at 160 mOsm/L.		

Related Policies, Procedures, and Guidelines

HDWA Mandatory Policies:

MP 0131/20: WA High Risk Medication Policy

Clinical Practice Guidelines:

<u>Umbilical Arterial Catheter (UAC)</u>

Pharmaceutical and Medicines Management Guidelines:

<u>CAHS Neonatology – Medication Administration Guideline</u>

High Risk Medicines

References

AusDI. DBL Sodium Acetate Concentrated Injection (Sodium Acetate). In: AusDI By Medical Director [Internet]. Australia: AusDI by Medical Director; 2021 [cited 2025 Aug 08]. Available from: https://www.ausdi.com/

AusDI. Heparinised Saline (Heparin Sodium) Solution for Injection. In: AusDI By Medical Director [Internet]. Australia: AusDI by Medical Director; 2022 [cited 2025 Aug 08]. Available from: https://www.ausdi.com/

Australasian Neonatal Medicines Formulary (ANMF). Sodium acetate. In: Australasian Neonatal Medicines Formulary [Internet]. [Sydney, New South Wales; 2023 [cited 2025 Aug 18]. Available from: www.anmfonline.org

Society of Hospital Pharmacists of Australia. Sodium acetate. In: Australian Injectable Drugs Handbook [Internet]. [St Leonards, New South Wales]: Health Communication Network; 2025 [cited 2025 Aug 12]. Available from: http://aidh.hcn.com.au

UpToDate Lexidrug. Sodium acetate. In: UpToDate Lexidrug [Internet]. Wolters Kluwer; 2025. [cited 2025 Aug 20]. Available from: https://www.uptodate.com/

Document history

Keywords	Sodium acetate, UAC, central line, line patency, metabolic acidosis, preterm							
Document Owner:	Chief Pharmacist							
Author/ Reviewer	KEMH & PCH Pharmacy/Neonatology Directorate							
Version Info:	V1.0							
Date First Issued:	02/09/2025	Last Reviewed:	N/A		Review Date:	02/09/2030		
Endorsed by:	Neonatal Directora	te Management Gro		Date:	23/09/2025			
NSQHS Standards Applicable:	Std 1: Clini	Std 4: Medication Safety						
Printed or personally saved electronic copies of this document are considered uncontrolled. Access the current version from WNHS HealthPoint.								

This document can be made available in alternative formats on request for a person with a disability.

© North Metropolitan Health Service 2025