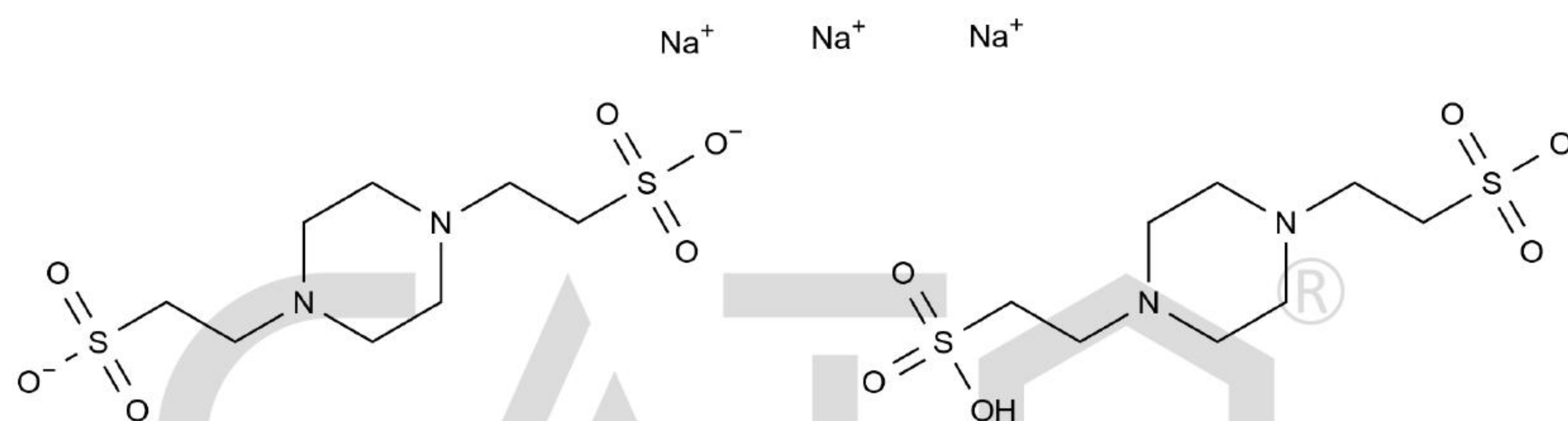


Certificate of Analysis

Intermediate Material

Product Name:	1,4-Piperazinediethanesulfonic Acid Sesquisodium Salt	Catalogue Number:	CIM-105951
Batch Size:	N/A	Lot Number:	0623-RH-0001
CAS Number:	100037-69-2	Production Date:	Apr 12, 2026
Molecular Formula:	$C_8H_{17}N_2O_6S_2 \cdot C_8H_{16}N_2O_6S_2 \cdot 3Na$	Expiry Date:	Apr 11, 2028
Molecular Weight:	301.36 300.35 3*22.99	Storage:	2°C ~ 8°C Protected from light and Sealed
		Shipping Condition:	Shipping at Room Temperature

Chemical Structure:



Test Items	Acceptance Criteria	Results
Appearance	White Crystalline Solid	White Crystalline Solid
Loss on Drying(%)	NMT 1.00	0.23
pH (1% aqueous)	6.5~7.1	6.77
Solubility(10% aqueous)	Colourless and clear	Confirmed
Pb(ppm)	NMT 5.0	Confirmed
UV absorbance (260nm,10% aq.)	NMT 0.05	0.012
UV absorbance (280nm,10% aq.)	NMT 0.05	0.013
Assay(%)	99.0~101.0	99.96

Signature:

Prepared by:

Reviewed by:

Approved by General Manager:

Date: Jun 24, 2026

Date: Jun 24, 2026

Date: Jun 24, 2026



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