



Specification

Cacodylic Acid Sodium Salt 3-hydrate *BioChemica*

A2140

Solubility:	2000 g/L (H ₂ O)
Physical Description:	Solid
Product Code:	A2140
Product Name:	Cacodylic Acid Sodium Salt 3-hydrate <i>BioChemica</i>
Specifications:	<p>Assay (titr.): min. 98 %</p> <p>Solubility (10 %; H₂O): clear, colorless</p> <p>Chloride: max. 0.002 %</p> <p>Sulfate: max. 0.002 %</p> <p>Cd: max. 0.005 %</p> <p>Cu: max. 0.005 %</p> <p>Fe: max. 0.005 %</p> <p>Pb: max. 0.005 %</p> <p>Zn: max. 0.005 %</p>
Hazard pictograms	 
UN:	1688
Class/PG:	6.1/II
ADR:	6.1/II
IMDG:	6.1/II
IATA:	6.1/II
WGK:	3
Storage:	RT

AppliChem GmbH

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Signal Word:	Danger
GHS Symbols:	GHS06 GHS09
H Phrases:	H301+H331 H410
P Phrases:	P261 P301+P310 P321 P330 P405 P501
Molecular Formula:	$C_2H_6AsNaO_2 \cdot 3H_2O$
M:	214.03 g/mol
CAS:	6131-99-3
EINECS:	204-708-2
CS:	29319000
Index Nr.:	033-002-00-5
Comment	<p>Sodium cacodylate is a widely used buffer for different assays\:</p> <ul style="list-style-type: none"> (I) enzyme reaction buffer (e. g. ref. 1, 4)\: labeling of DNA at the 3' end with $[\alpha\text{-}^{32}\text{P}]\text{ddATP}$ in 140 mM sodium cacodylate buffer (pH 7.2, ref. 4; pH 6.8 ref. 1) and terminal transferase; (II) reaction buffer for the chemical modification / cleavage, e. g. for the sequencing of DNA (50 mM, pH 8.0, ref. 5); (III) fixation of tissue, membranes and cells with glutaraldehyde or formaldehyde, respectively, in fixation buffer (e. g. ref. 2, 3). <p>The working concentration ranges from 10 - 50 mM and a pH value of 7.2. Please note, that cacodylate inhibits the alkaline phosphatase in a concentration dependent manner in the cytochemical assay for this enzyme. As an alternative, the authors recommend the use of a NaOH-Pipes buffer (2)</p>

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Bibliography

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