

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-12-26 16:13:19
 Date of Next Testing: 2028-12-25 16:13:19
 Product Name: **Sodium hydrogen carbonate**
 CAS Number: 144-55-8
 Specifications & Purity: PharmPure™, USP, ChP, JP, BP, Ph.Eur., FCC, E 500
 Lot #: GML2524157
 SKU #: **S774710**
 Version: **3**
 Analysis #: **631676**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Assay(acidimetric)	99.0-101 (%)	99.98000 %
Assay(alkalimetric , calculated on dried substance)	99.5-100.5 (%)	100.09000 %
PH(5% in water)	7.9-8.4	8.38500
Chloride (Cl-)	0-0.015 (%)	0.00000 %
Aluminium(Al)	0-0.0002 (%)	0.00000 %
As (Arsenic)	0-0.0002 (%)	0.00000 %
Calcium(Ca)	0-0.01 (%)	0.00010 %
Copper(Cu)	0-0.0001 (%)	0.00000 %
Magnesium(Mg)	0-0.004 (%)	0.00040 %
Iron(Fe)	0-0.0005 (%)	0.00000 %
Ammonium(NH4)	0-0.002 (%)	0.00000 %
Heavy metals(as Pb)	0-0.0005 (%)	0.00000 %
Loss on drying(Silica gel)	0-0.25 (%)	0.10950 %
Lead(Pb)	0-0.0002 (%)	0.00000 %
Zinc(Zn)	0-0.0025 (%)	0.00000 %
Mercury(Hg)	0-0.0001 (%)	0.00000 %
Alkalinity	0-8.6 (%)	8.50000 %
Sulfur compounds (as SO4)	0-0.015 (%)	0.00000 %
Appearance(S774710)	white or almost white, crystalline powder	White or almost white crystalline powder
Solubility:soluble in water, practically insoluble in ethanol(96 per cent).	pass	Pass
Identity(EP)(A)	passes test	Passes test
Identity(EP)(B)	passes test	Passes test
Identity (EP)(C)	passes test	Passes test

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Parameter	Limit Values	Result
Appearance of solution	Passes test	Passes test
Insoluble matter	pass	Pass
Carbonate(CO ₃)	Pass	Pass
Residual solvents (ICH Q3C)(excluded by production process)	Pass	Pass
NH ₄ (Ammonium) according to JP	passes test	Passes test

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager