

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-09-11 18:50:02
 Date of Next Testing: 2027-09-01 18:50:02
 Product Name: **Sodium phosphate dibasic**
 CAS Number: 7558-79-4
 Specifications & Purity: for molecular biology, ≥99.5%(T)
 Lot #: I2504446
 SKU #: **S118443**
 Version: **2**
 Analysis #: **559016**

Parameter	Limit Values	Result
Cadmium(Cd)	0-5 (ppm)	2.50 ppm
Calcium(Ca)	0-10 (ppm)	1.40 ppm
Bismuth(Bi)	0-5 (ppm)	1.50 ppm
UV Absorbance 280nm	0-0.02	0.02
Zinc(Zn)	0-5 (ppm)	0.60 ppm
Potassium(K)	0-50 (ppm)	2.50 ppm
Nickel(Ni)	0-5 (ppm)	1.34 ppm
Iron(Fe)	0-5 (ppm)	0.68 ppm
PH	8.8-9.4	8.89
Aluminum(Al)	0-5 (ppm)	0.80 ppm
Manganese(Mn)	0-5	1.10
Total Nitrogen	0-0.001 (%)	0.00 %
(Pb)Lead	0-5 (ppm)	0.60 ppm
Cobalt(Co)	0-5 (ppm)	1.52 ppm
Chloride (Cl-)	0-10 (ppm)	2.51 ppm
Loss on drying	0-0.1 (%)	0.05 %
Magnesium(Mg)	0-5 (ppm)	0.65 ppm
Lithium(Li)	0-5 (ppm)	2.41 ppm
(As)Arsenic	0-0.2 (ppm)	0.02 ppm
Barium(Ba)	0-5 (ppm)	3.21 ppm
UV Absorbance 260nm	0-0.025	0.00
Molybdenum(Mo)	0-5 (ppm)	0.19 ppm
Sulfate(SO42-)	0-50 (ppm)	3.62 ppm
Copper(Cu)	0-5 (ppm)	1.90 ppm
Chromium(Cr)	0-5 (ppm)	2.44 ppm
Strontium(Sr)	0-5 (ppm)	1.60 ppm

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Parameter	Limit Values	Result
Assay	99.5-102.5 (%)	99.65 %
DNases	none detected	none detected
Insoluble matter	pass	Pass
phosphatases	none detected	none detected
pKa	6.8	6.8
proteases	none detected	none detected
RNases	none detected	none detected
Solubility in H ₂ O , soluble 0.5 M at 20 °C, clear, colorless	Almost transparent	Almost transparent
λ, 0.5 M in H ₂ O	Pass	Pass
Appearance(S118443)	White to Off-White Powder or Granules	White to Off-White Powder or Granules
ICP: Confirms Na & P Components	Confirmed	Confirmed

John Su
QA & QC Manager