

Certificate of Analysis

Date of Testing: 2025-02-08 09:51:22

Date of Next Testing: 2027-01-29 09:51:22

Product Name: **Sodium phosphate dibasic**

CAS Number: 7558-79-4

Specifications & Purity: for molecular biology, ≥99.5%(T)

Lot #: E23101067

SKU #: **S118443**

Version: **2**

Analysis #: **468729**

Parameter	Limit Values	Result
Cadmium(Cd)	0-5 (ppm)	1.20 ppm
Calcium(Ca)	0-10 (ppm)	2.34 ppm
Bismuth(Bi)	0-5 (ppm)	0.00 ppm
UV Absorbance 280nm	0-0.02	0.01
Zinc(Zn)	0-5 (ppm)	1.32 ppm
Potassium(K)	0-50 (ppm)	21.30 ppm
Nickel(Ni)	0-5 (ppm)	0.00 ppm
Iron(Fe)	0-5 (ppm)	0.28 ppm
PH	8.8-9.4	9.10
Aluminum(Al)	0-5 (ppm)	1.30 ppm
Manganese(Mn)	0-5	2.23
Total Nitrogen	0-0.001 (%)	0.00 %
(Pb)Lead	0-5 (ppm)	1.48 ppm
Cobalt(Co)	0-5 (ppm)	2.30 ppm
Chloride (Cl-)	0-10 (ppm)	3.56 ppm
Loss on drying	0-0.1 (%)	0.06 %
Magnesium(Mg)	0-5 (ppm)	2.09 ppm
Lithium(Li)	0-5 (ppm)	0.00 ppm
(As)Arsenic	0-0.2 (ppm)	0.00 ppm
Barium(Ba)	0-5 (ppm)	1.30 ppm
UV Absorbance 260nm	0-0.025	0.01
Molybdenum(Mo)	0-5 (ppm)	0.00 ppm
Sulfate(SO42-)	0-50 (ppm)	12.00 ppm
Copper(Cu)	0-5 (ppm)	0.50 ppm
Chromium(Cr)	0-5 (ppm)	0.40 ppm
Strontium(Sr)	0-5 (ppm)	1.98 ppm

Parameter	Limit Values	Result
Assay	99.5-102.5 (%)	99.51 %
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 , soluble0.5 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

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

John Su
QA & QC Manager