

Certificate of Analysis

Date of Testing: 2025-04-21 11:18:58

Date of Next Testing: 2027-04-11 11:18:58

Product Name: **Sodium phosphate dibasic**

CAS Number: 7558-79-4

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

Lot #: E23101086

SKU #: **S118443**

Version: **2**

Analysis #: **499450**

Parameter	Limit Values	Result
Cadmium(Cd)	0-5 (ppm)	1.10 ppm
Calcium(Ca)	0-10 (ppm)	2.00 ppm
Bismuth(Bi)	0-5 (ppm)	0.00 ppm
UV Absorbance 280nm	0-0.02	0.00
Zinc(Zn)	0-5 (ppm)	1.30 ppm
Potassium(K)	0-50 (ppm)	21.00 ppm
Nickel(Ni)	0-5 (ppm)	0.00 ppm
Iron(Fe)	0-5 (ppm)	0.20 ppm
PH	8.8-9.4	9.00
Aluminum(Al)	0-5 (ppm)	1.20 ppm
Manganese(Mn)	0-5	2.20
Total Nitrogen	0-0.001 (%)	0.00 %
(Pb)Lead	0-5 (ppm)	1.40 ppm
Cobalt(Co)	0-5 (ppm)	2.00 ppm
Chloride (Cl-)	0-10 (ppm)	3.00 ppm
Loss on drying	0-0.1 (%)	0.03 %
Magnesium(Mg)	0-5 (ppm)	2.00 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)	0.25 ppm
Chromium(Cr)	0-5 (ppm)	0.24 ppm
Strontium(Sr)	0-5 (ppm)	2.00 ppm

Parameter	Limit Values	Result
Assay	99.5-102.5 (%)	99.50 %
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



John Su
QA & QC Manager