

Certificate of Analysis

Date of Testing: 2022-11-15 14:39:18

Date of Next Testing: 2024-11-04 14:39:18

Product Name: **Sodium phosphate dibasic**

CAS Number: 7558-79-4

Specifications & Purity: Molecular biology grade, ≥99.5%(T)

Lot #: I2322094

SKU #: **S118443**

Analysis: **155555**

Parameter	Limit Values	Result
Cadmium(Cd)	0-5 (ppm)	2.55 ppm
Calcium(Ca)	0-10 (ppm)	4.01 ppm
Bismuth(Bi)	0-5 (ppm)	3.00 ppm
UV Absorbance 280nm	0-0.02	0.00
Zinc(Zn)	0-5 (ppm)	2.22 ppm
Potassium(K)	0-50 (ppm)	19.88 ppm
Nickel(Ni)	0-5 (ppm)	2.64 ppm
Iron(Fe)	0-5 (ppm)	2.00 ppm
PH	8.8-9.4	8.89
Aluminum(Al)	0-5 (ppm)	1.90 ppm
Manganese(Mn)	0-5	2.00
Total Nitrogen	0-0.001 (%)	0.00 %
(Pb)Lead	0-5 (ppm)	3.00 ppm
Cobalt(Co)	0-5 (ppm)	2.22 ppm
Chloride (Cl-)	0-10 (ppm)	4.60 ppm
Loss on drying	0-0.1 (%)	0.02 %
Magnesium(Mg)	0-5 (ppm)	2.99 ppm
Lithium(Li)	0-5 (ppm)	3.10 ppm
(As)Arsenic	0-0.2 (ppm)	0.08 ppm
Barium(Ba)	0-5 (ppm)	2.94 ppm
UV Absorbance 260nm	0-0.025	0.02
Molybdenum(Mo)	0-5 (ppm)	3.00 ppm
Sulfate(SO42-)	0-50 (ppm)	25.90 ppm
Copper(Cu)	0-5 (ppm)	2.56 ppm
Chromium(Cr)	0-5 (ppm)	1.20 ppm
Strontium(Sr)	0-5 (ppm)	3.91 ppm
Assay	99.5-102.5 (%)	99.57 %

Parameter	Limit Values	Result
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