

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-08-02 11:06:52  
 Date of Next Testing: 2025-07-22 11:06:52  
 Product Name: **Sodium phosphate monobasic dihydrate**  
 CAS Number: 13472-35-0  
 Specifications & Purity: for molecular biology, ≥99.0%(T)  
 Lot #: G23201079  
 SKU #: **S102315**  
 Analysis: **248515**

Parameter	Limit Values	Result
Cobalt(Co)	0-5 (ppm)	0.00 ppm
(Pb)Lead	0-5 (ppm)	0.00 ppm
Aluminum(Al)	0-5 (ppm)	0.00 ppm
PH	4-4.5	4.20
Lithium(Li)	0-5 (ppm)	0.97 ppm
Magnesium(Mg)	0-5 (ppm)	0.47 ppm
Potassium(K)	0-200 (ppm)	85.89 ppm
Barium(Ba)	0-5 (ppm)	0.00 ppm
(As)Arsenic	0-0.2 (ppm)	0.00 ppm
Molybdenum(Mo)	0-5 (ppm)	0.00 ppm
Strontium(Sr)	0-5 (ppm)	0.00 ppm
Chromium(Cr)	0-5 (ppm)	0.00 ppm
Copper(Cu)	0-5 (ppm)	0.00 ppm
Cadmium(Cd)	0-5 (ppm)	0.00 ppm
Nickel(Ni)	0-5 (ppm)	0.00 ppm
Iron(Fe)	0-5 (ppm)	0.00 ppm
Anion traces	0-50 (ppm)	21.33 ppm
Zinc(Zn)	0-5 (ppm)	0.00 ppm
Calcium(Ca)	0-10 (ppm)	0.00 ppm
Bismuth(Bi)	0-5 (ppm)	0.00 ppm
A280nm (1M in water)	0-0.07	0.00400
A260nm(1M in water)	0-0.085	0.00700
Manganese(Mn)	0-5 (ppm)	0.00 ppm
Purity (Titration by NaOH)	98.5-101.5 (%)	99.44 %
DNases	none detected	none detected
Insoluble matter	pass	Pass
phosphatases	none detected	none detected

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Parameter	Limit Values	Result
proteases	none detected	none detected
RNases	none detected	none detected
Solubility in H <sub>2</sub> O , soluble , 1M , 20°C, clear, colorless	pass	Pass
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager