

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

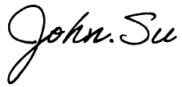
Date of Testing: 2023-06-06 09:16:35  
 Date of Next Testing: 2025-05-26 09:16:35  
 Product Name: **Potassium phosphate dibasic anhydrous**  
 CAS Number: 7758-11-4  
 Specifications & Purity: for molecular biology, ≥99.0%(T)  
 Lot #: H2130300  
 SKU #: **P112220**  
**Analysis:** **235043**  
 Storage Temperature: Desiccated

Parameter	Limit Values	Result
Manganese(Mn)	0-5 (ppm)	2.21 ppm
Sulfate(SO42-)	0-50 (ppm)	24.63 ppm
Copper(Cu)	0-5 (ppm)	2.30 ppm
Purity(Titration by HClO4)	99-101 (%)	99.25 %
PH	8.7-9.3	8.88
Lead(Pb)	0-5 (ppm)	1.36 ppm
Nickel(Ni)	0-5 (ppm)	3.33 ppm
(As)Arsenic	0-0.1 (ppm)	0.05 ppm
Bismuth(Bi)	0-5 (ppm)	2.25 ppm
Sodium(Na)	0-5000 (ppm)	1010.22 ppm
UV Absorbance 280nm	0-0.15	0.03
UV Absorbance 260nm	0-0.2	0.00
Cadmium(Cd)	0-5 (ppm)	3.21 ppm
Chloride (Cl-)	0-50 (ppm)	49.98 ppm
Barium(Ba)	0-5 (ppm)	1.14 ppm
Chromium(Cr)	0-5 (ppm)	3.21 ppm
Iron(Fe)	0-5 (ppm)	3.45 ppm
Calcium(Ca)	0-10 (ppm)	4.45 ppm
Lithium(Li)	0-5 (ppm)	3.62 ppm
Strontium(Sr)	0-5 (ppm)	3.02 ppm
Zinc(Zn)	0-5 (ppm)	1.15 ppm
Cobalt(Co)	0-5 (ppm)	0.36 ppm
Aluminum(Al)	0-5 (ppm)	0.01 ppm
Magnesium(Mg)	0-5 (ppm)	1.11 ppm
Molybdenum(Mo)	0-5 (ppm)	0.03 ppm
Appearance (P112220)	white crystalline powder	white crystalline powder

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Parameter	Limit Values	Result
DNase, RNase, Protease, Phosphatase	None Detected	none detected
Ignition Residue (as sulfate)	None Detected	none detected
Solubility in H <sub>2</sub> O , Clear Colorless , 5.225g/30ml (1M), H <sub>2</sub> O	pass	Pass
X-Ray Diffraction	Conforms to Structure	Conforms to Structure
$\lambda$ , 1 M in H <sub>2</sub> O	Pass	Pass

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

John Su  
QA & QC Manager