

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-03-02 16:19:01  
 Date of Next Testing: 2024-02-20 16:19:01  
 Product Name: **Potassium phosphate dibasic anhydrous**  
 CAS Number: 7758-11-4  
 Specifications & Purity: for molecular biology, ≥99.0%(T)  
 Lot #: B2226636  
 SKU #: **P112220**  
**Analysis:** **060747**  
 Storage Temperature: Desiccated

Parameter	Limit Values	Result
Manganese(Mn)	0-5 (ppm)	2.36 ppm
Sulfate(SO42-)	0-50 (ppm)	11.39 ppm
Copper(Cu)	0-5 (ppm)	3.31 ppm
PH	8.7-9.3	9.10
Lead(Pb)	0-5 (ppm)	2.55 ppm
Nickel(Ni)	0-5 (ppm)	1.92 ppm
(As)Arsenic	0-0.1 (ppm)	0.06 ppm
Bismuth(Bi)	0-5 (ppm)	2.39 ppm
Sodium(Na)	0-5000 (ppm)	15.98 ppm
UV Absorbance 280nm	0-0.15	0.10
UV Absorbance 260nm	0-0.2	0.11
Cadmium(Cd)	0-5 (ppm)	2.33 ppm
Chloride (Cl-)	0-50 (ppm)	0.00 ppm
Barium(Ba)	0-5 (ppm)	2.90 ppm
Chromium(Cr)	0-5 (ppm)	3.26 ppm
Iron(Fe)	0-5 (ppm)	4.12 ppm
Calcium(Ca)	0-10 (ppm)	6.52 ppm
Lithium(Li)	0-5 (ppm)	3.74 ppm
Strontium(Sr)	0-5 (ppm)	3.21 ppm
Zinc(Zn)	0-5 (ppm)	2.31 ppm
Cobalt(Co)	0-5 (ppm)	1.44 ppm
Aluminum(Al)	0-5 (ppm)	2.36 ppm
Magnesium(Mg)	0-5 (ppm)	1.03 ppm
Molybdenum(Mo)	0-5 (ppm)	2.55 ppm
Purity(Titration by HClO4)	99-101 (%)	99.01 %
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
$\lambda$ , 1 M in H <sub>2</sub> O	Pass	Pass
X-Ray Diffraction	Conforms to Structure	Conforms to Structure

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

John Su  
QA & QC Manager