

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-07-11 15:33:05  
 Date of Next Testing: 2028-07-10 15:33:05  
 Product Name: **BES**  
 CAS Number: 10191-18-1  
 Specifications & Purity:  $\geq 99.5\%$ (T)  
 Lot #: G2403164  
 SKU #: **B105116**  
 Version: **0**  
 Analysis #: **372911**  
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Potassium(K)	0-50 (ppm)	20.00 ppm
Iron(Fe)	0-5 (ppm)	0.00 ppm
Zinc(Zn)	0-5 (ppm)	0.00 ppm
Calcium(Ca)	0-10 (ppm)	0.00 ppm
Ignition Residue(900°C)	0-0.05 (%)	0.01 %
Sodium(Na)	0-50 (ppm)	16.00 ppm
Barium(Ba)	0-5 (ppm)	0.00 ppm
Manganese(Mn)	0-5 (ppm)	0.00 ppm
PH(25 °C, 1 M in Water)	2.5-5	3.33
Cobalt(Co)	0-5 (ppm)	0.00 ppm
Nickel(Ni)	0-5 (ppm)	0.00 ppm
Bismuth(Bi)	0-5 (ppm)	0.00 ppm
Chloride (Cl-)	0-50 (ppm)	1.05 ppm
Cadmium(Cd)	0-5 (ppm)	0.00 ppm
UV Absorbance 280nm	0-0.08	0.03
Copper(Cu)	0-5 (ppm)	0.00 ppm
Chromium(Cr)	0-5 (ppm)	0.00 ppm
Strontium(Sr)	0-5 (ppm)	0.00 ppm
Molybdenum(Mo)	0-5 (ppm)	0.00 ppm
Sulfate(SO42-)	0-100 (ppm)	0.53 ppm
(As)Arsenic	0-0.1 (ppm)	0.00 ppm
Magnesium(Mg)	0-5 (ppm)	0.00 ppm
Lithium(Li)	0-5 (ppm)	0.00 ppm
UV Absorbance 260nm	0-0.095	0.03
Aluminum(Al)	0-5 (ppm)	0.00 ppm

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Parameter	Limit Values	Result
(Pb)Lead	0-5 (ppm)	0.00 ppm
Assay	99.5-100 (%)	99.61 %
useful PH range	6.4-7.8	6.80
Appearance (B105116)	White to Off-White Solid, Powder, or Crystals	White to Off-White Solid, Powder, or Crystals
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O , soluble , 1M , 20°C, clear, colorless	pass	Pass
λ,1 M in H <sub>2</sub> O	Pass	Pass

John Su  
QA & QC Manager