

Certificate of Analysis

Date of Testing: 2022-11-22 19:23:51
 Date of Next Testing: 2026-11-21 19:23:51
 Product Name: **BES**
 CAS Number: 10191-18-1
 Specifications & Purity: $\geq 99.5\%$ (T)
 Lot #: K2218181
 SKU #: **B105116**
Analysis: **139858**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Potassium(K)	0-50 (ppm)	0.00 ppm
Iron(Fe)	0-5 (ppm)	0.00 ppm
Zinc(Zn)	0-5 (ppm)	0.00 ppm
Calcium(Ca)	0-10 (ppm)	7.00 ppm
Ignition Residue(900°C)	0-0.05 (%)	0.03 %
Sodium(Na)	0-50 (ppm)	0.00 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	3.07
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)	13.52 ppm
Cadmium(Cd)	0-5 (ppm)	0.00 ppm
UV Absorbance 280nm	0-0.08	0.01
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)	14.58 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	0.01
Aluminum(Al)	0-5 (ppm)	0.00 ppm
(Pb)Lead	0-5 (ppm)	0.00 ppm

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Parameter	Limit Values	Result
useful PH range	6.4-7.8	6.80
Assay	99.5-100 (%)	99.79%
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 ₂ O , soluble , 1M , 20°C, clear, colorless	pass	Pass
λ,1 M in H ₂ O	Pass	Pass

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

John Su
QA & QC Manager