

Certificate of Analysis

Date of Testing: 2025-03-24 14:35:18

Date of Next Testing: 2027-03-14 14:35:18

Product Name: **BES**

CAS Number: 10191-18-1

Specifications & Purity: for molecular biology, ≥99.5%(T)

Lot #: C2517309

SKU #: **B105117**

Version: **0**

Analysis #: **467754**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
PH	2.5-5	2.76
Cobalt(Co)	0-5 (ppm)	0.00 ppm
Aluminum(Al)	0-5 (ppm)	0.00 ppm
Barium(Ba)	0-5 (ppm)	0.00 ppm
(As)Arsenic	0-0.1 (ppm)	0.00 ppm
Chromium(Cr)	0-5 (ppm)	0.00 ppm
Copper(Cu)	0-5 (ppm)	0.00 ppm
useful PH range	6.4-7.8	6.50
Ignition Residue (as sulfate)	0-0.05 (%)	0.00 %
Cadmium(Cd)	0-5 (ppm)	0.00 ppm
Calcium(Ca)	0-10 (ppm)	0.00 ppm
Bismuth(Bi)	0-5 (ppm)	0.00 ppm
Iron(Fe)	0-5 (ppm)	0.00 ppm
Potassium(K)	0-50 (ppm)	0.00 ppm
Sulfate(SO42-)	0-100 (ppm)	0.00 ppm
Chloride (Cl-)	0-50 (ppm)	47.00 ppm
Assay	99.5-100 (%)	99.74 %
DNases	none detected	none detected
Insoluble matter	pass	Pass
phosphatases	none detected	none detected
proteases	none detected	none detected
RNases	none detected	none detected
Solubility in H2O , soluble , 1M , 20°C, clear, colorless	pass	Pass
pKa	6.8	6.8



ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

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

John Su
QA & QC Manager