

Certificate of Analysis

Date of Testing: 2022-02-14 09:08:37

Date of Next Testing: 2024-02-04 09:08:37

Product Name: **Phenol**

CAS Number: 108-95-2

Specifications & Purity: for molecular biology , ≥99.5%

Lot #: B2208054

SKU #: **P100769**

Analysis: **056425**

Storage Temperature: Store at 2-8°C, Protected from light, Argon charged

Parameter	Limit Values	Result
Iron(Fe)	0-5 (ppm)	2.00 ppm
Aluminum(Al)	0-5 (ppm)	3.00 ppm
Cadmium(Cd)	0-5 (ppm)	2.50 ppm
(As)Arsenic	0-0.1 (ppm)	0.06 ppm
Bismuth(Bi)	0-5 (ppm)	1.80 ppm
Calcium(Ca)	0-10 (ppm)	0.00 ppm
Lithium(Li)	0-5 (ppm)	0.00 ppm
Water by Karl Fischer	0-0.5 (%)	0.17 %
Zinc(Zn)	0-5 (ppm)	2.30 ppm
(Pb)Lead	0-5 (ppm)	3.00 ppm
Manganese(Mn)	0-5 (ppm)	2.60 ppm
Nickel(Ni)	0-5 (ppm)	0.00 ppm
PH	3-6	5.00
Barium(Ba)	0-5 (ppm)	0.00 ppm
Sulfate(SO ₄ ²⁻)	0-50 (ppm)	16.00 ppm
Potassium(K)	0-50 (ppm)	0.00 ppm
Chromium(Cr)	0-5 (ppm)	3.00 ppm
Ignition Residue (as sulfate)	0-0.05 (%)	0.03 %
Chloride (Cl ⁻)	0-5 (ppm)	2.00 ppm
Strontium(Sr)	0-5 (ppm)	3.00 ppm
Copper(Cu)	0-5 (ppm)	0.00 ppm
Cobalt(Co)	0-5 (ppm)	0.00 ppm
Sodium(Na)	0-50 (ppm)	26.00 ppm
Molybdenum(Mo)	0-5 (ppm)	0.00 ppm
Magnesium(Mg)	0-5 (ppm)	0.00 ppm
Purity(GC)	99.5-100 (%)	99.51 %

ALADDIN SCIENTIFIC CORPORATION

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Parameter	Limit Values	Result
Melting point	41-45 (°C)	43.35000 °C
Appearance (P100769)	Clear Crystals	Clear Crystals
DNases	none detected	none detected
Infrared spectrum	Conforms to Structure	Conforms to Structure
Insoluble matter	pass	Pass
phosphatases	none detected	none detected
proteases	none detected	none detected
RNases	none detected	none detected
Solubility(Clear colorless solution at 50 mg/ml in water)	Pass	Pass

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

John Su
QA & QC Manager