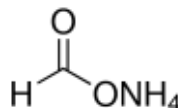


Certificate of Analysis

Product Name:

Ammonium formate - eluent additive for LC-MS, LiChropur™, ≥99.0%

Product Number: 70221
Batch Number: BCCH5566
Brand: SIAL
CAS Number: 540-69-2
Formula: CH₅NO₂
Formula Weight: 63,06 g/mol
Quality Release Date: 14 APR 2022
Recommended Retest Date: SEP 2025



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Crystals	Crystals
Titration with HClO ₄ 99.0 - 101.0 % (Calc. Based on Dry Substance)	99.0 - 101.0 %	99.8 %
LCMS for Mass Spectroscopy	Corresponds to Requirements	Corresponds
Water	≤ 2 %	1 %
Residue on Ignition	≤ 0.10 %	< 0.05 %
Metal Trace Analysis (ICP)	Corresponds to Requirements	Pass
Aluminum (Al)	≤ 1 mg/kg	< 1 mg/kg
Barium (Ba)	≤ 1 mg/kg	< 1 mg/kg
Bismuth (Bi)	≤ 1 mg/kg	< 1 mg/kg
Calcium (Ca)	≤ 5 mg/kg	< 5 mg/kg
Cadmium (Cd)	≤ 1 mg/kg	< 1 mg/kg
Cobalt (Co)	≤ 1 mg/kg	< 1 mg/kg
Chromium (Cr)	≤ 1 mg/kg	< 1 mg/kg
Copper (Cu)	≤ 1 mg/kg	< 1 mg/kg
Iron (Fe)	≤ 1 mg/kg	< 1 mg/kg
Potassium (K)	≤ 5 mg/kg	< 5 mg/kg
Lithium (Li)	≤ 1 mg/kg	< 1 mg/kg
Magnesium (Mg)	≤ 1 mg/kg	< 1 mg/kg
Manganese (Mn)	≤ 1 mg/kg	< 1 mg/kg

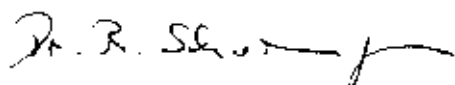
Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



Certificate of Analysis

Product Number: 70221
Batch Number: BCCH5566

Test	Specification	Result
Molybdenum (Mo)	≤ 1 mg/kg	< 1 mg/kg
Sodium (Na)	≤ 5 mg/kg	< 5 mg/kg
Nickel (Ni)	≤ 1 mg/kg	< 1 mg/kg
Lead (Pb)	≤ 1 mg/kg	< 1 mg/kg
Strontium (Sr)	≤ 1 mg/kg	< 1 mg/kg
Zinc (Zn)	≤ 1 mg/kg	< 1 mg/kg
Arsenic (As) (MHS-AAS)	≤ 0.10 mg/kg	< 0.10 mg/kg
Total Sulfur as SO ₄ (ICP)	≤ 50 mg/kg	< 50 mg/kg
Chloride (Cl)	≤ 50 mg/kg	< 50 mg/kg
Appearance of solution (Clear Colorless) 1m in Water	Corresponds to Requirements	Corresponds
PH of Solution (PH) 1m in Water	5.5 - 7.5	6.8
Filtered (No Residue on Filter Test)	No Residue	No Residue
UV Absorbance 260nm	≤ 0.01	0.00
UV Absorbance 280nm	≤ 0.01	0.00



Dr. Reinhold Schwenninger
Quality Assurance
Buchs, Switzerland CH

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