

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-04-07 17:16:57
 Date of Next Testing: 2029-04-06 17:16:57
 Product Name: **Acetic acid**
 CAS Number: 64-19-7
 Specifications & Purity: JP,Moligand™,Ph.Eur.,PharmPure™,USP
 Lot #: GMD2602398
 SKU #: **A774565**
 Version: **6**
 Analysis #: **686756**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Appearance-clarity (PhEur)	≤ 3 (NTU)	0.63300 NTU
Acetaldehyde	≤0.02 (%)	0.00000 %
Assay(PhEur/USP)	99.5-100.5 (%)	99.89000 %
ASSAY(JP)	≥99 (%)	99.89000 %
Freezing Point(PhEur)	≥14.8 (°C)	16.40000 °C
Chlorides(PhEur)	0-25 (mg/L)	0.00000 mg/L
Sulfates(PhEur)	≤ 50 (mg/L)	0.00000 mg/L
Iron(PhEur)	0-5 (ppm)	0.00000 ppm
Residue on Evaporation(PhEur)	0-0.01 (%)	0.00000 %
Nonvolatile Residue(USP)	0-1 (mg)	0.00000 mg
Nonvolatile residue(JP)	≤ 1 (mg)	0.00000 mg
Congealing Temperature(USP)	≥ 15.6 (°C)	16.40000 °C
Congealing Point(JP)	≥14.5 (°C)	16.40000 °C
Heavy metals(JP)	≤10 (ppm)	0.00000 ppm
Bacterial endotoxins	0-2.5 (IU/ml OR u/ml)	0.00000 IU/ml OR u/ml
Microbiological testing (Total aerobic microbial count)	≤ 100 (cfu/ml)	0.00000 cfu/ml
Microbiological testing (Total yeast and mold count)	≤ 10 (CFU/mL)	0.00000 cfu/ml
Appearance(A774565)	Crystalline mass or clear,colourless,volatile liquid	Crystalline mass or clear,colourless,volatile liquid
Appearance-colour (PhEur)(Solution is clear and colourless if it has the appearance of water or is not more intensely coloured than reference solution B9)	Pass	Pass

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Parameter	Limit Values	Result
Solubility:miscible with water, with ethanol (96 per cent) and with methylene chloride	Pass	Pass
Identity(PhEur)(A)	Pass	Pass
Identity(PhEur)(B)	Pass	Pass
Identity(USP)	Conforms	Conforms
Identity (JP)	Conforms	Conforms
Identity acetate (PhEur)(A blue precipitate is formed or a dark blue colour develops)	pass	Pass
Identity acetate (JP)	Conforms	Conforms
identity acetate(USP)	Conforms	Conforms
Solution Appearance(PhEur)(The substance to be examined is clear and colourless)	Pass	Pass
Reducing Substances(PhEur)	Conforms	Conforms
Chlorides(USP)	Pass	Pass
Chlorides(JP)	Pass	Pass
Sulfates(USP/JP)	Pass	Pass
Readily Oxidizable Substances(USP)	Pass	Pass
Potassium permanganate-reducing substances	Conforms	Conforms
Residual solvents(As no solvents are used in the process, by default the product meets the requirements of ICH Q3C (R4))	Pass	Pass
Elemental impurities(No elemental impurities exceeded the control threshold of option 1 limit as stated in ICHQ3D)	Conforms	Conforms



John Su
QA & QC Manager