



Certificate of Analysis

1.08800.0000 Zinc acetate dihydrate EMPROVE® ESSENTIAL Ph Eur,USP
Batch AM1912900

	Spec. Values		Batch Values	
Assay (complexometric)	99.0 - 101.0	%	99.9	%
Assay (USP)	98.0 - 102.0	%	99.3	%
Assay Acetic acid (potentiometric)	≤ 0.5	%	≤ 0.5	%
Identity	passes test		passes test	
Identity (USP)	passes test		passes test	
Appearance of solution	passes test		passes test	
Insoluble matter	≤ 0.005	%	≤ 0.005	%
pH-value (5 %; water)	6.0 - 7.0		6.3	
Chloride (Cl)	≤ 0.0050	%	≤ 0.0050	%
Sulfate (SO ₄)	≤ 0.0100	%	≤ 0.0100	%
Al (Aluminium)	≤ 0.0005	%	≤ 0.0005	%
As (Arsenic)	≤ 0.0002	%	≤ 0.0002	%
Cd (Cadmium) (*)	≤ 0.0001	%	0.000015	%
Fe (Iron)	≤ 0.0050	%	≤ 0.0050	%
Pb (Lead)	≤ 0.0001	%	≤ 0.0001	%
Alkali- and alkaline earth metals	≤ 0.2	%	≤ 0.2	%
Other residual solvents (ICH Q3C)	excluded by manufacturing process		excluded by manufacturing process	
Reducing substances	passes test		passes test	

Elemental impurity specifications have been set considering ICH Q3D (Guideline for Elemental Impurities). Class 1-3 elements are not likely to be present above the ICH Q3D option 1 limit, unless specified and indicated (*).

Corresponds to Ph Eur,USP

Date of manufacture (DD.MM.YYYY) 19.11.2022

Date of examination (DD.MM.YYYY) 09.01.2024

Minimum shelf life (DD.MM.YYYY) 30.11.2027

Kristin Haufschildt

Responsible laboratory manager quality control

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