

CERTIFICATE OF ANALYSIS

Item	Details
Product Name	Zinc Nitrate Heptahydrate
Synonym	Zinc(II) Nitrate Heptahydrate
Molecular Formula	$\text{Zn}(\text{NO}_3)_2 \cdot 7\text{H}_2\text{O}$
Molecular Weight	337.50
CAS No.	10196-18-6 (Note: Common hydrate base CAS; heptahydrate variant)
EINECS No.	231-943-8
UN No.	2574, Class 5.1 Oxidizing Solid
Grade	Industrial Grade 98% Min
Batch No.	6599
Manufacturing Date	10-July-2026
Test Date	10-July-2026
Expiry Date	09-July-2028
Packing	25kg PE-lined woven bag / 1000kg jumbo bag
Storage Condition	Sealed, cool & dry place, away from reducing agents & organics

Test Items & Results

Test Item	Standard Specification	Test Result	Judgment	Test Method
Appearance	Colorless transparent crystalline, deliquescent	Colorless transparent crystal	Pass	Visual inspection
Assay ($\text{Zn}(\text{NO}_3)_2 \cdot 7\text{H}_2\text{O}$)	$\geq 98.0\%$	99.12%	Pass	EDTA complexometric titration
pH Value (10% Aqueous Solution)	3.0 ~ 6.0	4.5	Pass	pH Meter
Water Insoluble Matter	$\leq 0.05\%$	0.012%	Pass	Gravimetry
Chloride (Cl^-)	$\leq 0.005\%$	0.002%	Pass	Turbidimetry
Sulfate (SO_4^{2-})	$\leq 0.01\%$	0.004%	Pass	Turbidimetry
Iron (Fe)	$\leq 0.005\%$	0.0018%	Pass	Colorimetry
Heavy Metals (Pb)	$\leq 0.003\%$	0.001%	Pass	Colorimetry
Ammonium Salt (NH_4^+)	$\leq 0.01\%$	0.003%	Pass	Nessler's reagent method
Loss on Drying	Within crystal water range	Matched theoretical hydrate content	Pass	Drying oven 105°C

Comprehensive Conclusion

This batch of Zinc Nitrate Heptahydrate complies with internal industrial standard specifications. All tested items meet requirements, qualified for export FOB Qingdao.

*This above product complies as per the specifications of : **MOLATOM SCIENTIFIC. LTD.***

MOLATOM SCIENTIFIC LTD.

Website: [www.https://www.molatomscientific.com](https://www.molatomscientific.com)