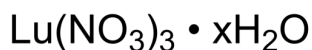


Certificate of Analysis

Compound Information

Product Name:	Lutetium(III) nitrate hydrate,99.90%
Cat. No.:	1237270
CAS No.:	100641-16-5
Molecular Formula:	$\text{Lu}(\text{NO}_3)_3 \cdot x\text{H}_2\text{O}$
Molecular Weight:	360.98 (anhydrous basis)
Chemical Structure:	



Batch Information

Batch No.:	Lg0609257848
Storage:	Store at room temperature, keep dry and cool
Test Date:	2023-06-09
Retest Date:	2026-06-08
Origin:	Shanghai, China

QC Summary

QC Summary	Specification	Result
Appearance:	White to off-white (Solid)	White (Crystal)
Assay, $\omega/\%$:	≥ 99.99	99.99
Total Oxide, $\omega/\%$:	≥ 41.40	qualified
Cerium Dioxide (CeO_2), $\omega/\%$:	≤ 0.0005	qualified
Lanthanum Trioxide (La_2O_3), $\omega/\%$:	≤ 0.0007	qualified
Neodymium Oxide (Nd_2O_3), $\omega/\%$:	≤ 0.0005	qualified
Praseodymium Oxide (Pr_6O_{11}), $\omega/\%$:	≤ 0.0005	qualified
Samarium Oxide (Sm_2O_3), $\omega/\%$:	≤ 0.0005	qualified
Yttrium Oxide (Y_2O_3), $\omega/\%$:	≤ 0.0005	qualified
Iron Oxide (Fe_2O_3), $\omega/\%$:	≤ 0.0003	qualified
Sulfate (SO_4), $\omega/\%$:	≤ 0.002	qualified
Chloride (Cl), $\omega/\%$:	≤ 0.004	qualified
Silica (SiO_2), $\omega/\%$:	≤ 0.002	qualified
Calcium Oxide (CaO), $\omega/\%$:	≤ 0.002	qualified
Conclusion:	The product has been tested and complies with the given specifications.	

Caution: Research use only and are not intended for human use.

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