

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalogue Number</b>	35657
<b>Lot Number</b>	003131-12100
<b>Product</b>	<b>Lutetium(III) nitrate hydrate</b> Lutetium trinitrate hydrate
<b>CAS Number</b>	10099-67-9, 100641-16-5
<b>Molecular Formula</b>	Lu(NO <sub>3</sub> ) <sub>3</sub> •xH <sub>2</sub> O
<b>Molecular Weight</b>	360.98 (anhydrous basis)

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<b>Appearance</b>	White crystalline powder
<b>Anion</b>	Si : < 20 ppm
<b>Purity</b>	99.9% (Metal basis)
<b>Storage</b>	Store at RT
<b>Additional Information</b>	Content of Lu <sub>2</sub> O <sub>3</sub> is 46.03%  Cation - Na+K : < 5 ppm, Mg : < 5 ppm, Al : < 3 ppm, Ca : < 20 ppm, Sc : < 1 ppm, Ti : < 1 ppm, V : < 1 ppm, Cr : < 1 ppm, Mn : < 3 ppm, Fe : < 10 ppm, Ni : 8 ppm, Cu : < 3 ppm, Zn : < 1 ppm, Y : 1 ppm, La : < 50 ppm, Ce : < 50 ppm, Pr : < 10 ppm, Nd : < 10 ppm, Sm : < 10 ppm, Eu : < 10 ppm, Gd : < 100 ppm, Tb : < 50 ppm, Dy : < 10 ppm, Ho : < 10 ppm, Er : < 10 ppm, Tm : < 10 ppm, Yb : < 50 ppm, Pb : < 2 ppm, Bi : < 1 ppm, Th : < 1 ppm, U : < 1 ppm

<b>Remarks</b>	See material safety data sheet for additional information  For laboratory use only
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The foregoing is a copy of the Certificate of Analysis as provided by our supplier



**Bala Kumar**  
Quality Control Manager