



HANGZHOU DINGYAN CHEM CO.,LTD

TEL: 86-571-87157530,86465881,88025800, FAX:86-571-87156470

E-Mail:sales@dingyanchem.com,Web: www.dingyanchem.com

CERTIFICATE OF ANALYSIS

NO: DYC082002271

Product name	Lutetium(III) chloride, anhydrous
CAS Number	10099-66-8
Molecule Structure	<chem>ClLuCl2</chem>
Molecule Formula	C13Lu
Batch number	191201
Manufacture date	2019/12/02&2021/12/01
Testing date	2020/01/06

Items	Standard	Result
Lu2O3/Rare Earth Oxides	99.99%	99.99%
Rare Earth Oxides	>69%	>69%
H2O	<0.5%	<0.5%
Rare Earth Impurities (%)	La2O3: 0.0002% CeO2: 0.0003% Pr6O11: 0.0003% Nd2O3: 0.0003% Sm2O3: 0.0003% Eu2O3: 0.0003% Gd2O3: 0.0003% Tb4O7: 0.0003% Dy2O3: 0.0003% Ho2O3: 0.0003% Er2O3: 0.0003% Tm2O3: 0.0005% Yb2O3: 0.0006% Y2O3: 0.0004%	La2O3: 0.0002% CeO2: 0.0003% Pr6O11: 0.0003% Nd2O3: 0.0003% Sm2O3: 0.0003% Eu2O3: 0.0003% Gd2O3: 0.0003% Tb4O7: 0.0003% Dy2O3: 0.0003% Ho2O3: 0.0003% Er2O3: 0.0003% Tm2O3: 0.0005% Yb2O3: 0.0006% Y2O3: 0.0004%
Non-RE Impurities (%)	Fe2O3: 0.0004% SiO2: 0.0019% CaO: 0.0009%	Fe2O3: 0.0004% SiO2: 0.0019% CaO: 0.0009%
Loss on ignition (L. O. I.) (1000°C, 1hour)		
Grain size distribution (D. C σ)		
Specific surface area (cm <sup>2</sup> /g)		
Medium diameter (d50 μ)		

Hangzhou Dingyan Chem Co., Ltd.

QUALITY CONTROL: *Pauls*

CHECK: 姚仙娟

INSPECTOR: 刘清风