



Unilong Industry Co., Ltd

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CERTIFICATE OF ANALYSIS

Product	Lanthanum Chloride Heptahydrate	Batch No.	JL20230918
CAS	10025-84-0	MF Date	Sep.20,2023
Packing	1kg/bag	Analysis Date	Sep.20,2023

PARAMETER	NUMERICAL VALUE	UNIT	PARAMETER	NUMERICAL VALUE	UNIT
PURITY	>99.98	%	TREO	43.75	%

RE IMPURITIES CONTENT			NON-RE IMPURITIES CONTENT		
CeO ₂ /TREO	0.0011	%	Fe ₂ O ₃ /TREO	< 0.001	%
Pr ₆ O ₁₁ /TREO	<0.001	%	NH ₄ ⁺ /TREO	0.05	%
Nd ₂ O ₃ /TREO	<0.001	%	(CaO+MgO)/TREO	0.045	%
Sm ₂ O ₃ /TREO	<0.001	%	SO ₄ ²⁻ /TREO	<0.01	%
Eu ₂ O ₃ /TREO	<1	%	Na ₂ O/TREO	0.06	%
Gd ₂ O ₃ /TREO	<1	%	BaO/TREO	0.006	%
Tb ₄ O ₇ /TREO	<1	%	ThO ₂ /TREO	< 0.0002	%
Dy ₂ O ₃ /TREO	<1	%	SrO/TREO	0.0055	%
Ho ₂ O ₃ /TREO	<1	%	Radioactivity/TREO	<1.0	Bq/g
Er ₂ O ₃ /TREO	<1	%	Pb/TREO	< 0.001	%
Tm ₂ O ₃ /TREO	<1	%	ZnO/TREO	< 0.001	%
Yb ₂ O ₃ /TREO	<1	%	Color	white	
Lu ₂ O ₃ /TREO	<1	%			
Y ₂ O ₃ /TREO	<0.001	%			

Analyst: Wen Qian

Quality Assurance Officer: Zhan Peng