



Certificate of analysis

Reference #: 2019065-015/804

Manufacturing date: **10/28/19**

Analysis date: **10/30/19**

Product name	Hafnium(IV) 2,4-pentanedionate, 98% (99.5% - Hf)				
Ereztech #	HF5671	CAS#	17475-67-1	Purity	98.3% by elemental analysis
Lot/batch #	015/804	Net weight/volume	100g	Seal #	N/A
Packaging	1 plastic can	Storage	Shelf life 3 years.		
CofO	Russia				

Analytical results					
Appearance	White xtls				
Purity	98.3% by elemental analysis				
NMR H1	Conforms to structure				
Elemental analysis	% C = 41.07; % H = 4.83 %				
ICP	97.99%				
Impurity weight, ppm	Al	40	Cu	15	
	Co	10	Mn	10	
	Mo	10	Ni	20	
	Nb	12	Sn	30	
	Ca	30	Cr	30	
	Mg	10	Fe	45	