

## CERTIFICATE OF ANALYSIS

PRODUCT NAME: Zirconium(IV) chloride, 99.9% metals basis

ITEM NUMBER: Z109460  
BRAND: Aladdin  
CAS NUMBER: 10026-11-6  
MDL NUMBER: MFCD00011306  
FORMULA: ZrCl<sub>4</sub>  
MOLECULAR WEIGHT: 233.04

TEST	SPECIFICATION		TARGET VALUE
	MIN.	MAX.	
Appearance	White to Light Yellow Powder or Chunks		
Cl	60.2 %	61.5 %	61.5 %
ICP: Confirms Zirconium Component	Confirmed		
Purity(Based On Trace Metals Analysis)	99.9 %	100 %	100 %
total metallic impurities	0 ppm	1000 ppm	1000 ppm
X-Ray Diffraction	Conforms to Structure		