## Certificate of analysis

Hafnium (IV) oxide, 99.9% (metals basis excluding Zr), Zr <0.5%

Stock Number: 36204 Lot Number: A21Q34

Analysis based on starting materials

 $\begin{array}{ccccc} Al & < 50 & & Fe & < 25 \\ Si & < 50 & & Ti & < 25 \\ U & < 1.0 & & Zr & < 0.5 \ \% \end{array}$ 

Values given in ppm unless otherwise noted

X-Ray Diffraction: Major HfO<sub>2</sub> matches PDF 34-104 Monoclinic

Certified by:

**Quality Control** 

Paul V Cornally

This document has been electronically generated and does not require a signature.