



## Certificate of analysis

### Reference #: 2019048-029/197

Manufacturing date: **07/04/19**  
 Analysis date: **07/10/19**

Product name	<b>Tantalum(V) butoxide, min. 98 % (99.99 % - Ta)</b>				
Ereztech #	<b>TA4781</b>	CAS#	<b>51094-78-1</b>	Purity	<b>98.6% by gravimetric analysis</b>
Lot/batch #	<b>029/197</b>	Net weight/volume	<b>50102gm</b>	Seal #	<b>N/A</b>
Packaging	<b>40 glass bottles, 2 glass ampules</b>	Storage	<b>Moisture sensitive. Shelf life 1 year.</b>		
CofO	<b>Russia</b>				

Analytical results				
Appearance	<b>Orange liquid</b>			
Purity	<b>98.6%</b>			
Gravimetric analysis	<b>% Ta = 32.6 % (after ignition to oxide)</b>			
Impurity weight, ppm	<b>Al</b>	<b>1.0</b>	<b>Fe</b>	<b>5</b>
	<b>Co</b>	<b>&lt;0.03</b>	<b>Si</b>	<b>19</b>
	<b>Mn</b>	<b>0.1</b>	<b>Mo</b>	<b>&lt;0.06</b>
	<b>Ni</b>	<b>0.09</b>	<b>Ti</b>	<b>0.3</b>
	<b>Cr</b>	<b>0.3</b>	<b>Nb</b>	<b>19</b>
	<b>W</b>	<b>&lt;0.06</b>	<b>Ca</b>	<b>12</b>
	<b>Sn</b>	<b>&lt;0.06</b>		