



## Certificate of analysis

### Reference #: 2019078-030/143

Manufacturing date: **Jul/25/19**  
Analysis date: **Jul/30/19**

Product name	<b>(t-Butylimido)tris(diethylamino)tantalum(V), 98+% (99.99%-Ta) PURATREM TBTDET</b>				
Ereztech #	<b>TA6417</b>	CAS#	<b>169896-41-7</b>	Purity	<b>98.46% by integration NMR</b>
Lot/batch #	<b>030/143</b>	Net weight/volume	<b>600g</b>	Seal #	<b>N/A</b>
Packaging	<b>1 glass bottle</b>	Storage	<b>Air, moisture sensitive. Shelf life 1 year.</b>		

Analytical results	
Appearance	<b>Light yellow liquid</b>
NMR H1	<b>Conforms to structure</b>
Purity	<b>98.46%</b>
ICP, ppm	<b>Al: 1.3 Fe: 5 Co: &lt;0.1 Si: 10 Mn: &lt;0.1 Mo: &lt;0.1 Ni: 0.1 Ti: 0.5 Cr: 0.1 Nb: 2.7 W: &lt;0.1 Ca: 12 Sn: &lt;0.1</b>