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 410 Forest Avenue
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Certificate of analysis

Reference #: TA6417-003/661

Manufacturing date Oct/13/21

Analysis date Oct/15/21

| | | | | | |
|--------------|--|-------------------|--|--------|------------------------------------|
| Product name | (t- Butylimido)tris(diethylamino)tantalum(V), min.98% (99.99% - Ta) PURATREM TBTDET | | | | |
| Ereztech # | TA6417 | CAS# | 169896-41-7 | Purity | 99.06% (by integration NMR) |
| Lot/batch # | 003/661 | Net weight/volume | 10000 g | Seal # | N/A |
| Packaging | 8 glass bottles | Storage | Air, Moisture sensitive. Shelf life 1 year. | | |
| CofO | Russia | | | | |

| Analytical results | | | | |
|----------------------|------------------------------|-----------------|-----------|-----------------|
| Appearance | light yellow liquid | | | |
| NMR H1 | conforms to structure | | | |
| Purity | 99.06% | | | |
| ICP | >99.99% - Ta | | | |
| Impurity weight, ppm | Al | 0.2 | Nb | 1.3 |
| | Ca | 13 | Ni | <0.06 |
| | Co | <0.03 | Si | 18 |
| | Cr | 0.3 | Sn | <0.06 |
| | Fe | 5 | Ti | 0.2 |
| | Mn | <0.06 | W | <0.06 |
| | Mo | <0.06 | | |



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