



Certificate of analysis

Reference #: 010/302

Manufacturing date Jun/11/19

Analysis date Jun/11/19

| | | | | | |
|--------------|---|-------------------|--|-------------------|-----------------------------|
| Product name | Tantalum(V) chloride, anhydrous (99.99 % - Ta) | | | | |
| Product code | TA1019 | CAS# | 7721-01-9 | Purity | 99.3% (by titration) |
| Lot/batch # | 010/302 | Net Weight/volume | 30000g | Country of origin | Russia |
| Packaging | 30 glass bottles | Storage | Moisture sensitive. Shelf life 1 year | | |

| Analytical results | |
|--------------------|---|
| Appearance | White powder |
| Titration by AgNO3 | % Cl = 49.13 % |
| Purity | 99.3% |
| ICP | 99.99+% (total concentration of impurities < 100 ppm) |
| ICP, ppm | Co=0.03 Nb=2.6 Al=1 W<0.6 Cr=0.3 Ca=12.0 Fe=5 Mo<0.06 Ni=0.09 Si=19 Sn<0.06 Ti=0.3 Mn=0.1 |