

# Certificate of analysis

**Titanium sputtering target, 50.8mm (2.0in) dia x 6.35mm (0.250in) thick,  
99.995 % (metals basis)**

**Stock Number: 43043**

**Lot number: I20R001**

## Analysis

|    |         |    |         |    |         |    |        |
|----|---------|----|---------|----|---------|----|--------|
| H  | < 3     | Li | < 0.005 | Be | < 0.005 | B  | < 0.01 |
| C  | < 20    | N  | < 20    | O  | < 50    | F  | < 0.05 |
| Na | < 0.05  | Mg | < 0.05  | Al | 2.5     | Si | 1.5    |
| P  | < 0.01  | S  | 0.05    | Cl | 0.29    | K  | < 0.05 |
| Ca | < 0.2   | V  | 0.02    | Cr | 0.55    | Mn | 0.35   |
| Fe | 3       | Co | < 0.01  | Ni | 0.07    | Cu | 0.45   |
| Zn | < 0.1   | Ga | < 0.05  | Ge | < 0.05  | As | < 0.01 |
| Se | < 0.1   | Rb | < 0.1   | Sr | < 0.1   | Y  | < 0.1  |
| Zr | 1.2     | Nb | < 0.5   | Mo | < 0.05  | Ru | < 0.05 |
| Rh | < 0.1   | Pd | < 0.05  | Ag | < 0.01  | Cd | < 0.01 |
| In | < 0.05  | Sn | < 0.01  | Sb | < 0.01  | Te | < 0.05 |
| Cs | < 0.1   | Ba | < 0.01  | La | < 0.01  | Hf | 0.13   |
| Ta | < 5     | W  | < 0.01  | Re | < 0.01  | Os | < 0.01 |
| Ir | < 0.01  | Pt | < 0.01  | Au | < 0.1   | Hg | < 0.1  |
| Tl | < 0.1   | Pb | < 0.01  | Bi | < 0.01  | Ce | < 0.01 |
| Pr | < 0.01  | Nd | < 0.01  | Sm | < 0.01  | Eu | < 0.01 |
| Gd | < 0.01  | Tb | < 0.01  | Dy | < 0.01  | Ho | < 0.01 |
| Er | < 0.01  | Tm | < 0.01  | Yb | < 0.01  | Lu | < 0.01 |
| Th | < 0.001 | U  | < 0.001 |    |         |    |        |

Values are given in ppm unless otherwise noted

Analysis method: GDMS/LECO

Certified by:



Quality Control

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