

# Certificate of Analysis

Germanium (Ge) Nanopowder

Purity: 99.9+% (metal basis); APS: 400 nm; Stock #: 0326HW

Element	Concentration [ ppm wt ]	Element	Concentration [ ppm wt ]
Li	< 0.001	Ag	< 0.001
Be	< 0.001	Cd	< 0.005
B	< 0.001	In	< 0.005
F	< 0.01	Sn	< 0.005
Na	< 0.001	Sb	< 0.005
Mg	< 0.001	Te	< 0.001
Al	< 0.001	I	< 0.001
Si	< 0.001	Cs	< 0.001
P	< 0.001	Ba	< 0.001
S	< 0.001	La	< 0.001
Cl	< 0.1	Ce	< 0.001
K	< 0.005	Pr	< 0.001
Ca	< 0.005	Nd	< 0.001
Sc	< 0.001	Sm	< 0.001
Ti	< 0.001	Eu	< 0.001
V	< 0.001	Gd	< 0.001
Cr	< 0.001	Tb	< 0.001
Mn	< 0.005	Dy	< 0.001
Fe	< 0.005	Ho	< 0.001
Co	< 0.001	Er	< 0.001
Ni	< 0.001	Tm	< 0.001
Cu	< 0.001	Yb	< 0.001
Zn	< 0.005	Lu	< 0.001
Ga	< 0.005	Hf	< 0.001
Ge	Matrix	Ta	Source Mat.
As	< 0.1	W	< 0.005
Se	< 0.005	Re	< 0.005
Br	< 0.005	Os	< 0.001
Rb	< 0.005	Ir	< 0.001
Sr	< 0.001	Pt	< 0.001
Y	< 0.005	Au	< 0.01
Zr	< 0.005	Hg	< 0.005
Nb	< 0.005	Tl	< 0.005
Mo	< 0.005	Pb	< 0.005
Ru	< 0.001	Bi	< 0.001
Rh	< 0.001	Th	< 0.0001
Pd	< 0.001	U	< 0.0001

Analytical technique: inductively coupled plasma emission spectroscopy

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