



Specification

Certipur[®] Certified Reference Material

Manufacturer:	Merck KGaA, Frankfurter Str. 250, 64293 Darmstadt, Germany
Description of CRM:	ICP multi-element standard XVII
Art. No.:	1.09495.0100
Traceability:	Element standard solutions are measured applying high precision ICP-OES and are directly traceable to the corresponding NIST SRM[®] . <i>NIST: National Institute of Standards and Technology, Gaithersburg, USA.</i>
Minimum shelf life:	3 years
Matrix:	HCl 15%
Nominal value:	See table below
Specification:	See table below

The effective element mass fractions are measured lot specifically.
The certified effective mass concentrations and the measurement uncertainties are calculated and shown in the table below.

Element	<u>Specification</u> mg/l	<u>Uncertainty**</u> mg/l	NIST Standard Reference Material
Hf	90 - 110	± 5	SRM 3122
Ir	90 - 110	± 5	Internal standard*
Sb	90 - 110	± 5	SRM 3102a
Sn	90 - 110	± 5	SRM 3161a
Ta	90 - 110	± 5	SRM 3155
Ti	90 - 110	± 5	SRM 3162a
Zr	90 - 110	± 5	SRM 3169

*SRM[®] from NIST is not available

**The measurement uncertainty can vary depending on the primary reference material.