



Specification

Certipur[®] Certified Reference Material

Manufacturer:	Merck KGaA, Frankfurter Str. 250, 64293 Darmstadt, Germany
Description of CRM:	ICP Multi-element standard USP-III according to USP <232> oral dose
Art. No.:	5.05103.0100
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:	18 months
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	Specification mg/l	Uncertainty** mg/l	NIST Standard Reference Material
Ir	97.0 - 103	± 1	Internal standard*
Pt	97.0 - 103	± 1	SRM 3140
Os	97.0 - 103	± 1	Internal standard*
Rh	97.0 - 103	± 1	SRM 3144
Pd	97.0 - 103	± 1	SRM 3138
Ru	97.0 - 103	± 1	Internal standard*

*SRM[®] from NIST is not available

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