

Specification – Certified Reference Material

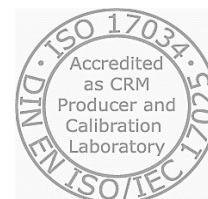
Element ICP Standard Solution 10000 mg/L

Accreditation:



Deutsche
Akkreditierungsstelle
D-RM-15185-01-00

Merck KGaA, Darmstadt, Germany is accredited by the German accreditation authority as registered reference material producer (D-RM-15185-01-00) in accordance with **ISO 17034**.



Deutsche
Akkreditierungsstelle
D-K-15185-01-00

Merck KGaA, Darmstadt, Germany - Calibration laboratory is accredited by the German accreditation authority as registered Calibration Laboratory (D-K-15185-01-00) according to **DIN EN ISO/IEC 17025**.

Description of CRM:	Element ICP standard solution 10000 mg/l
Expiry date:	4 years
Storage:	+15°C to +25°C tightly closed in the original container
Specification:	9086 – 9948 mg/kg

Article	Analyte	Description of CRM	Associated uncertainty*, $U=k \cdot u$ ($k=2$) as mass fraction
170371	Al	Aluminium ICP Standard	± 50 mg/kg
170373	Ca	Calcium ICP Standard	± 50 mg/kg
170374	Cr	Chromium ICP Standard	± 60 mg/kg
170375	Co	Cobalt ICP Standard	± 60 mg/kg
170378	Cu	Copper ICP Standard	± 60 mg/kg
170376	Fe	Iron ICP Standard	± 60 mg/kg
170372	Pb	Lead ICP Standard	± 50 mg/kg
170379	Mg	Magnesium ICP Standard	± 60 mg/kg
170380	Mn	Manganese ICP Standard	± 60 mg/kg
170384	Hg	Mercury ICP Standard	± 80 mg/kg
170382	Ni	Nickel ICP Standard	± 60 mg/kg
170383	P	Phosphorus ICP Standard	± 70 mg/kg
170377	K	Potassium ICP Standard	± 70 mg/kg
170386	Si	Silicon ICP Standard	± 70 mg/kg
170381	Na	Sodium ICP Standard	± 60 mg/kg
170385	S	Sulfur ICP Standard	± 70 mg/kg
170388	V	Vanadium ICP Standard	± 60 mg/kg
170389	Zn	Zinc ICP Standard	± 70 mg/kg
170390	Zr	Zirconium ICP Standard	± 60 mg/kg

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



Metrological traceability:	Directly traceable to the corresponding / suitable NIST SRM [®] <i>NIST: National Institute of Standards and Technology, Gaithersburg, USA.</i>
Measurement method:	Inductively coupled plasma optical emission spectrometry ICP-OES
Intended use:	This reference material is intended for use as a calibration standard in element analysis.

For more detailed information please read the certification report on our website.

The vibrant M, Supelco, Aquastar and Sigma-Aldrich are trademarks of Merck KGaA, Darmstadt, Germany or its affiliates. Detailed information on trademarks is available via publicly accessible resources.
© 2018 Merck KGaA, Darmstadt, Germany and/or its affiliates. All Rights Reserved.

The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the US and Canada.

