

DECLARATION OF QUALITY

METRANAL® 09

Quality Control Material (QCM)

Matrix: Contaminated industrial sandy - loam soil, (metals)
Powdered material, grain size < 200 µm

The material is primarily designed for internal and external quality control purposes in the determination of total element contents and contents of element fraction extractable by the below described conventional procedures in soils and materials of similar matrix (quality control charts, inter-laboratory comparisons, estimation of bias etc.) but not for ensuring traceability of measurements and calibration purposes.

Analyte	Concentration (mg/kg)* ^a	Uncertainty (mg/kg)**
As	16.0	1.6
Ba	174	14
Be	2.01	0.20
Ca	5561	450
Cd	1.30	0.10
Co	12.3	0.12
Cr	106	7
Cu	26.0	1.8
Mn	511	45
Mo	1.40	0.10
Ni	40.0	2.5
Pb	33.3	2.9
Sn	< 5	-
V	49.9	3.8
Zn	114	5

* Dry weight at 105 °C

** Expanded combined uncertainty (k=2)

a Aqua regia extractable content according to ISO 11466 (1995)

The property values were assigned in 5 – 25 experienced accredited laboratories (ISO 17025) by using validated analytical methods.

The sample is stabilized by radiation (25 kGy).

RM is valid until expiry date indicated in the certificate, provided the RM is properly stored in the original closed bottle and professionally handled. This Declaration of Analysis is nullified if the RM is damaged, contaminated, or otherwise modified.

Analytika®, spol. s r.o. will monitor this RM over the period of its validity. If substantive changes of reference values occur, Analytika®, spol. s r.o. will notify the purchaser.

Packing: 50 g in an amber HDPE bottle

Batch No.: 005

Declaration issue date: 10th March 2015

Declaration revision date: 19th July 2020

Expiration: 31 December 2022

Producer: ANALYTIKA®, spol. s r.o.

Production unit Manager: Mgr. Mirka Petráňková

Signed:



Declaration version n. 4

Declaration revision history:

19th July 2020 (minor editorial changes, extension of expiry period)

5th December 2017 (editorial changes)

3rd August 2016 (editorial changes, extension of expiry period)

10th March 2015 (the first date of issue of the declaration)