

DECLARATION OF QUALITY

METRANAL® 18

Quality Control Material (QCM)

Matrix: Pond sediment, (metals)

Powdered material, grain size < 100 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) ¹⁾³⁾	Uncertainty (mg/kg) ²⁾
Ag	2.90	0.14
As	35.0	2.9
Ba	64.9	12.0
Be	1.7	0.1
Ca	57 276	335
Cd	2.2	0.1
Co	11.8	1.0
Cr	48.3	2.5
Cu	98.2	3.1
Mg	0.98	0.05
Mn	375	12
Ni	32.6	3.9
Pb	170	4
Sn	13.7	0.3
V	56.6	7.0
Zn	920	30
sulphate (water soluble)	4100	88
chloride (water soluble)	280	5

1) Dry mass at 105 °C

2) Expanded combined uncertainty (k=2)

3) 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 Certificate 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: 40 g in an amber HDPE bottle

Batch No.: 005

Declaration issue date: 14 January 2016

Declaration revision date: 22 June 2020

Expiration: 31 December 2022

Producer: ANALYTIKA®, spol. s r.o.

Production unit Manager: Mgr. Mirka Petránková

Signed:



Declaration version n. 3

Declaration Revision History:

3rd August 2016 (Extension of the period of validity; Editorial changes)

22nd June 2020 (minor editorial changes, extension of expiry period)