

## **DECLARATION OF QUALITY** METRANAL<sup>®</sup> 20

Quality Control Material (QCM)

## Matrix: Sewage sludge SS-02, (metals) Powdered material, grain size < 100 $\mu$ m

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, interlaboratory comparisons, estimation of bias etc.) but not for ensuring traceability of measurements and calibration purposes.

Analyte	Concentration (mg/kg) <sup>1)3)</sup>	Uncertainty (mg/kg) <sup>2)</sup>
Ag	9.45	0.13
As	18.3	0.5
Ве	0.91	0.03
Cd	1.45	0.04
Со	24.2	1.6
Cr	645	14
Cu	348	7
Hg	53.6	1.1
Mn	1580	110
Мо	4.47	0.51
Ni	48.3	1.1
Pb	221	6
Sn	14.4	0.3
V	49.2	0.3
Zn	937	16
sulphate (water soluble)	11520	152
chloride (water soluble)	2230	57
fluoride (water soluble)	32.2	1.0

1) Drv mass at 105 °C

2) Half width of the 95% confidence interval

3) Aqua regia exctractable 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<sup>®</sup>, spol. s r.o. will monitor this RM over the period of its validity. If substantive changes of reference values occur, Analytika<sup>®</sup>, spol. s r.o. will notify the purchaser.

Packing:40 g in an amber HDPE bottleBatch No.:004Certificate issue date:14 January 2015Certificate revision date:03 August 2016Expiration:31 December 2020Producer:ANALYTIKA®, spol. s r.o.Quality Manager:Ing. Lenka JanečkováSigned:Anager Analysia

Janechora

