Water Analysis

Metal analysis with *NANOCOLOR*®

Determination of the total content of metals
of heavy metal containing samples

Homogenisation
for a representative sample

Tin
REF 985097
pH 1–7
Determination without digestion

Required accessories

NANOCOLOR® Heating block	
NANOCOLOR® *NanOx* Metal	REF 918978
NANOCOLOR® Test tubes	REF 91680
pH-Fix 0–14	REF 92110
QUANTOFIX® Peroxide 25	REF 91319

NanOx Metal****
REF 918978
120 °C for 30 min

total Chromium 2
REF 985059
pH 1–10
digestion included

Crack Set****
REF 91808
100 °C for 1 h

Digestion solution

Digestion solution

The digestion solution must be clear and colorless. Otherwise additional decomposition is necessary. In case of an insoluble sediment please let it settle down and use only the remaining turbidity-free solution.

Lead 5
REF 985009
pH 3–6

Lead
REF 918101
pH 1–3

Cobalt
REF 91851
pH 4–10

Aluminum 07
REF 985098 **
pH 3–6

Cadmium 2
REF 985014
pH 7–10

Chromate 5
REF 985024
pH 1–7

Iron 3
REF 985037
pH 2–12

Copper 5
REF 985053 *
pH 1–7

Copper 7
REF 985054
pH 1–13

Nickel 4
REF 985071 *
pH 3–8

Silver 3
REF 985049
pH 3–9

Zinc 6
REF 985042 ***
pH 3–10

Zinc 4
REF 985096 *
pH 3–10

Zirconium 100
REF 985001
pH 0–13

Aluminum
REF 91802 **
pH 3–5

Cadmium
REF 918131
pH 1–7

Chromate
REF 91825
pH 1–9

Iron
REF 91836
pH 1–7

Iron LR
REF 918128
pH 1–7

Copper
REF 91853 *
pH 1–13

Nickel
REF 91862 *
pH 1–13

Zinc
REF 91895 *
pH 3–10

Validation of measurement results
More safety by internal quality control

Duplicate measurement

Dilution
e. g. 1+99, 1+9, 1+1

Standard measurement

NANOCONTROL
Multistandard Metals 1
REF 925015
NANOCONTROL
Multistandard Metals 2
REF 925016

Spiking

NANOCONTROL
100 + standard addition
(included in REF 925015 and REF 925016)

* In the presence of interfering calcium ions, please use the reagent for eliminating lime precipitation (REF 918939).
** Aluminum only with microwave decomposition.
*** In the presence of cadmium ions, please use cadmium compensation reagent (REF 918942).
**** Please refer to the instruction leaflet for a list of all suitable tube and standard tests.

Metallanalytik mit dem *NANOCOLOR*® System en4

www.mn-net.com

MACHEREY-NAGEL

TÜVRheinland CERTIFIED
Management System EN ISO 13485:2016 ISO 9001:2015
www.tuv.com ID 9000008338

MACHEREY-NAGEL GmbH & Co. KG
Valencienner Str. 11
52355 Düren · Germany

DE Tel.: +49 24 21 969-0 info@mn-net.com
CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com
FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com
US Tel.: +1 888 321 62 24 sales-us@mn-net.com