

# total Chromium

(continued)

**Test 0-24**



**Procedure B:**  
with **NANOCOLOR®**  
*NanOx* Metal  
(REF 918 978)

Requisite accessories:  
piston pipette with tips, test tubes (REF 916 80), **NANOCOLOR®** heating block

a) Oxidation	30 min/120 °C
Pipet <b>5.0 mL</b> test sample into a reaction tube, add <b>1 level orange measuring spoon</b> <i>NanOx</i> Metal decomposition reagent, close and shake thoroughly. Place the reaction tube into the heating block and press „START“. Remove tube from the heating block, shake gently and leave it cool. Open the reaction tube and test the decomposition solution for peroxides using <b>QUANTOFIX®</b> Peroxide 25 test sticks (REF 913 19).	

b) Determination of chromium
Open chromate test tube, add <b>4.0 mL</b> of preoxidized test sample, close, mix (Chromate R2 is not required). Clean outside of test tube and measure after 5 min.

Measurement:

Insert test tube, select method **0244** and perform measurement.

Chromium(III) = total chromium - chromium(VI)

= total chromium - (chromate x 0.45)

Lower total chromium concentrations (0.005–0.50 mg/L Cr) can be determined by using 50 mm semi-micro cuvettes (REF 919 50). Select method **1244**.

Analytical  
quality control:

**NANOCONTROL** multistandard Metals 1 (REF 925 015)