

MACHEREY-NAGEL

VISOCOLOR® ECO

Water Analysis



- Testanleitungen für Kompaktphotometer PF-12^{Plus}
- Test instructions for compact photometer PF-12^{Plus}
- Instructions pour photomètre compact PF-12^{Plus}
- Instrucciones para fotómetro compacto PF-12^{Plus}

visocolor® ECO Alkalinität TA

Alkalinity TA / Alcalinité TA / Alkalinidad TA

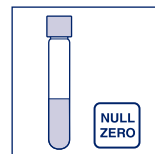
Test 5-04

REF 931 204

436 / 585 nm

Method(e) / Método

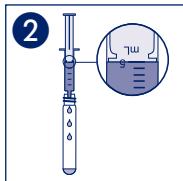
5041	0.3–14.0 °d
5042	0.10–5.00 mmol/L H ⁺
5043	0.4–17.5 °e
5044	0.5–25.0 °f
5045	5–250 mg/L CaCO ₃



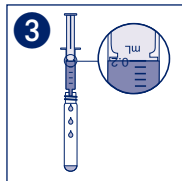
Probe / sample
échantillon / muestra



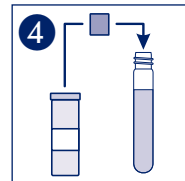
1
Küvetten spülen
Rinse test tubes
Rincer les éprouvettes
Lavar los tubos



2
5 mL Probe
Sample
Echantillon
Muestra



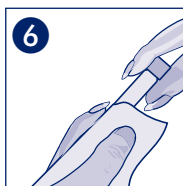
3
200 µL TA-1



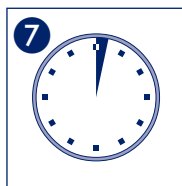
4
1 NANOFIX TA-2



5
Schütteln
Shake
Agiter
Agitar



6
Säubern
Clean
Nettoyer
Limpiar



7
2'00 min



8
Messung
Measurement
Mesure
Medición

Umrechnungstabelle / Conversion table / Tableau de conversion / Tabla de conversión

°d	°e	°f	mg/L CaCO ₃	mmol/L H ⁺	gpg
1	1.3	1.8	18	0.36	1
2	2.5	3.6	36	0.72	2
3	3.8	5.4	54	1.08	3
4	5.0	7.1	71	1.42	4
5	6.3	8.9	89	1.78	5
6	7.5	10.7	107	2.14	6
7	8.8	12.5	125	2.50	7
8	10.0	14.3	143	2.86	8
9	11.3	16.1	161	3.22	9
10	12.5	17.8	178	3.56	10



Meerwasser
Sea water
Eau de mer
Agua de mar

visocolor® ECO Ammonium 3

Amonio

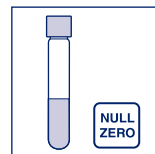
Test 5-08

REF 931 208

690 nm

Method(e) / Método

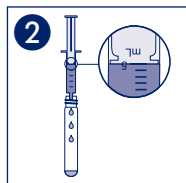
5081 0.1–2.0 mg/L NH₄-N
5082 0.1–2.5 mg/L NH₄⁺
5083 0.1–2.0 mg/L NH₃



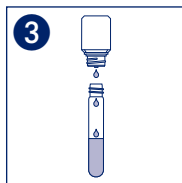
Probe / sample
échantillon / muestra



1
Küvetten spülen
Rinse test tubes
Rincer les éprouvettes
Lavar los tubos



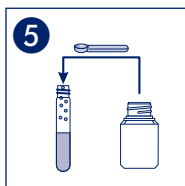
2 5 mL Probe
Sample
Echantillon
Muestra



3 10 H_2O NH₄-1



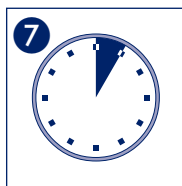
4
Schütteln
Shake
Agiter
Agitar



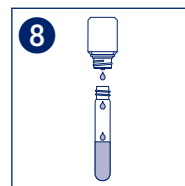
5 1 H_2O NH₄-2



6
Schütteln
Shake
Agiter
Agitar



7 5'00 min



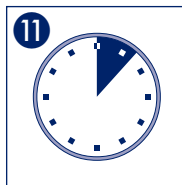
8 4 H_2O NH₄-3



9
Schütteln
Shake
Agiter
Agitar



10
Säubern
Clean
Nettoyer
Limpiar



11 7'00 min



12
Messung
Measurement
Mesure
Medición



Meerwasser
Sea water
Eau de mer
Agua de mar

visicolor[®] ECO Ammonium 15

Amonio

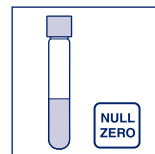
Test 5-10

REF 931 210

585 nm

Method(e) / Método

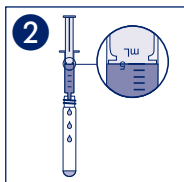
5101 0.4–6.2 mg/L NH₄-N
5102 0.5–8.0 mg/L NH₄⁺
5103 0.5–8.0 mg/L NH₃



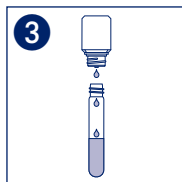
Probe / sample
échantillon / muestra



1
Küvetten spülen
Rinse test tubes
Rincer les éprouvettes
Lavar los tubos



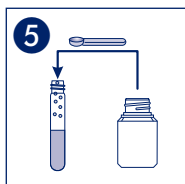
2 5 mL Probe
Sample
Echantillon
Muestra



3 10 ∆ NH₄-1



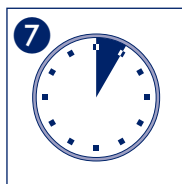
4
Schütteln
Shake
Agiter
Agitar



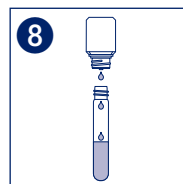
5 1 ∆ NH₄-2



6
Schütteln
Shake
Agiter
Agitar



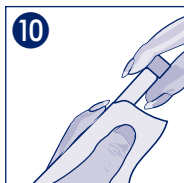
7 5'00 min



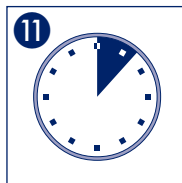
8 4 ∆ NH₄-3



9
Schütteln
Shake
Agiter
Agitar



10
Säubern
Clean
Nettoyer
Limpiar



11 7'00 min



12
Messung
Measurement
Mesure
Medición



1+9
Meerwasser
Sea water
Eau de mer
Agua de mar

visocolor® ECO Brom (frei)

Bromine (free)/ Brome (libre)/ Bromo (libre)

Test 5-11

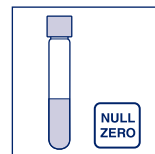
REF 931 211

540 nm

Method(e) / Método

5111

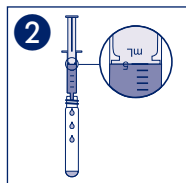
0.10–13.00 mg/L Br₂



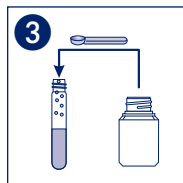
Probe / sample
échantillon / muestra



Küvetten spülen
Rinse test tubes
Rincer les éprouvettes
Lavar los tubos



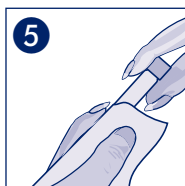
5 mL Probe
Sample
Echantillon
Muestra



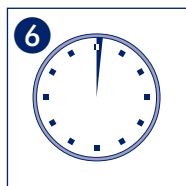
1 mL Br₂-1



20 s Schütteln
Shake
Agiter
Agitar



Säubern
Clean
Nettoyer
Limpiar



1'00 min



Messung
Measurement
Mesure
Medición



Meerwasser
Sea water
Eau de mer
Agua de mar

visicolor® ECO Brom (gesamt)

Bromine (total) / Brome (totale) / Bromo (total)

Test 5-11

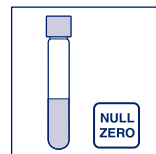
REF 931 211

540 nm

Method(e) / Método

5112

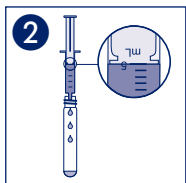
0.10–13.00 mg/L Br₂



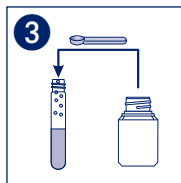
Probe / sample
échantillon / muestra



1
Küvetten spülen
Rinse test tubes
Rincer les éprouvettes
Lavar los tubos



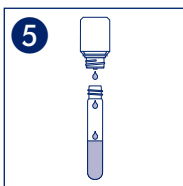
2
5 mL Probe
Sample
Echantillon
Muestra



3
1 Br₂-1



4
20 s Schütteln
Shake
Agiter
Agitar



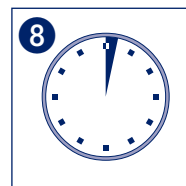
5
3 Br₂-2



6
Schütteln
Shake
Agiter
Agitar



7
Säubern
Clean
Nettoyer
Limpiar



8
2'00 min



9
Messung
Measurement
Mesure
Medición



Meerwasser
Sea water
Eau de mer
Agua de mar

visocolor® ECO Chlor 2 (frei)

Chlorine (free)/Chlore (libre)/Cloro (libre)

Test 5-15/5-16

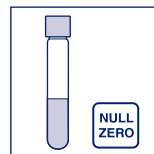
REF 931 215/931 216

540 nm

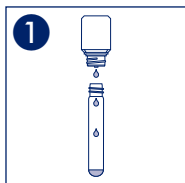
Method(e) / Método

5151/5161

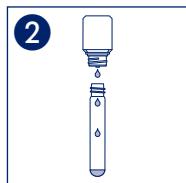
0.05–2.00 mg/L Cl₂



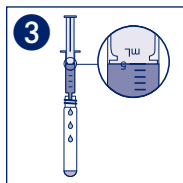
Probe / sample
échantillon / muestra



3 Δ Cl₂-1



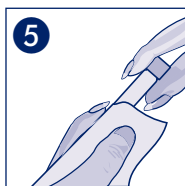
3 Δ Cl₂-2



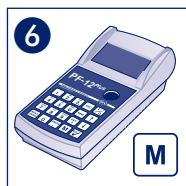
5 mL Probe
Sample
Echantillon
Muestra



Schütteln
Shake
Agiter
Agitar



Säubern
Clean
Nettoyer
Limpiar



Messung sofort
Measurement immediately
Mesure immédiatement
Medición inmediatamente



Meerwasser
Sea water
Eau de mer
Agua de mar

visicolor® ECO Chlor 2 (gesamt)

Chlorine (total)/Chlore (totale)/Cloro (total)

Test 5-15

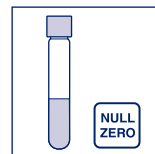
REF 931 215

540 nm

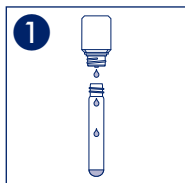
Method(e) / Método

5152

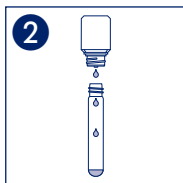
0.05–2.00 mg/L Cl₂



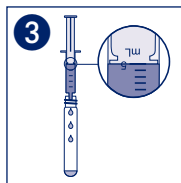
Probe / sample
échantillon / muestra



3 Δ Cl₂-1



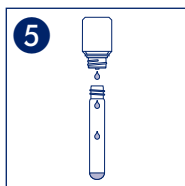
3 Δ Cl₂-2



5 mL Probe
Sample
Echantillon
Muestra



Schütteln
Shake
Agiter
Agitar



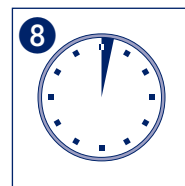
3 Δ Cl₂-3



Schütteln
Shake
Agiter
Agitar



Säubern
Clean
Nettoyer
Limpiar



2'00 min



Messung
Measurement
Mesure
Medición



Meerwasser
Sea water
Eau de mer
Agua de mar

visocolor® ECO Chlor 6 (frei)

Chlorine (free)/Chlore (libre)/Cloro (libre)

Test 5-17/5-19

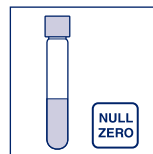
REF 931 217/931 219

540 nm

Method(e) / Método

5171/5191

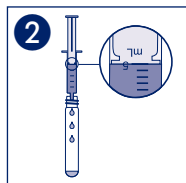
0.05–6.00 mg/L Cl₂



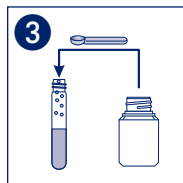
Probe / sample
échantillon / muestra



1
Küvetten spülen
Rinse test tubes
Rincer les éprouvettes
Lavar los tubos



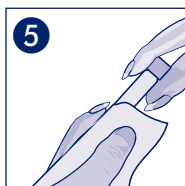
2
5 mL Probe
Sample
Echantillon
Muestra



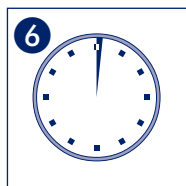
3
1 mL Cl₂-1



4
20 s Schütteln
Shake
Agiter
Agitar



5
Säubern
Clean
Nettoyer
Limpiar



6
1'00 min



7
Messung
Measurement
Mesure
Medición



Meerwasser
Sea water
Eau de mer
Agua de mar

visicolor® ECO Chlor 6 (gesamt)

Chlorine (total)/Chlore (totale)/Cloro (total)

Test 5-17

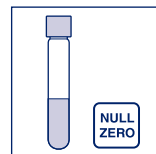
REF 931 217

540 nm

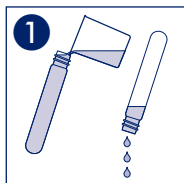
Method(e)/Método

5172

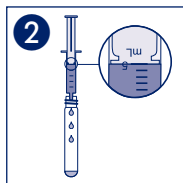
0.05–6.00 mg/L Cl₂



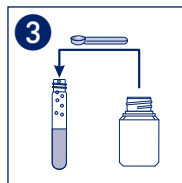
Probe / sample
échantillon / muestra



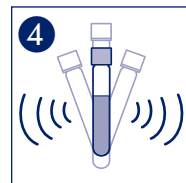
1
Küvetten spülen
Rinse test tubes
Rincer les éprouvettes
Lavar los tubos



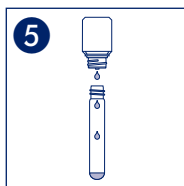
2
5 mL Probe
Sample
Echantillon
Muestra



3
1 Cl₂-1



4
20 s Schütteln
Shake
Agiter
Agitar



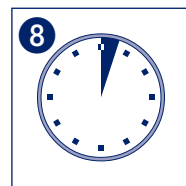
5
3 Cl₂-2



6
Schütteln
Shake
Agiter
Agitar



7
Säubern
Clean
Nettoyer
Limpiar



8
2'00 min



9
Messung
Measurement
Mesure
Medición



Meerwasser
Sea water
Eau de mer
Agua de mar

visocolor® ECO Chlorid

Chloride / Chlorure / Cloruro

Test 5-18

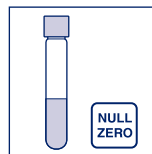
REF 931 218

470 nm

Method(e) / Método

5181

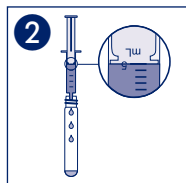
1–50 mg/L Cl⁻



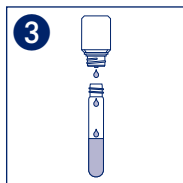
Probe / sample
échantillon / muestra



1
Küvetten spülen
Rinse test tubes
Rincer les éprouvettes
Lavar los tubos



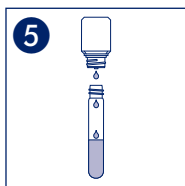
2
5 mL Probe
Sample
Echantillon
Muestra



3
10  CI-1



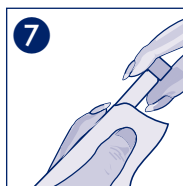
4
Schütteln
Shake
Agiter
Agitar



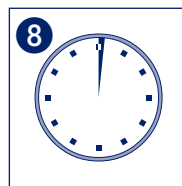
5
10  CI-2



6
Schütteln
Shake
Agiter
Agitar



7
Säubern
Clean
Nettoyer
Limpiar



8
1'00 min



9
Messung
Measurement
Mesure
Medición



Meerwasser
Sea water
Eau de mer
Agua de mar

visicolor® ECO Chrom(VI)

Chromium(VI) / Chrome(VI) / Cromo(VI)

Test 5-20

REF 931 220

540 nm

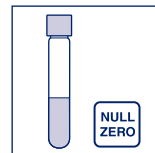
Method(e) / Método

5201

0.02–0.50 mg/L Cr(VI)

5202

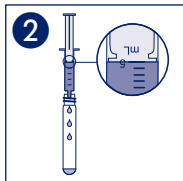
0.04–1.00 mg/L CrO₄²⁻



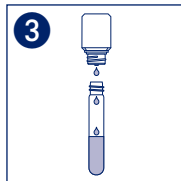
Probe / sample
échantillon / muestra



1
Küvetten spülen
Rinse test tubes
Rincer les éprouvettes
Lavar los tubos



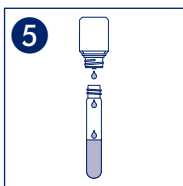
2
5 mL Probe
Sample
Echantillon
Muestra



3
5 ∆ Cr-1



4
Schütteln
Shake
Agiter
Agitar



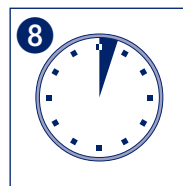
5
5 ∆ Cr-2



6
Schütteln
Shake
Agiter
Agitar



7
Säubern
Clean
Nettoyer
Limpiar



8
3'00 min



Messung
Measurement
Mesure
Medición



Meerwasser
Sea water
Eau de mer
Agua de mar

visocolor® ECO Chlordioxid

Chlorine dioxide / Dioxyde de chlore / Cloro dióxido

Test 5-21

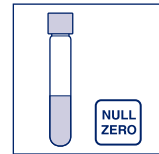
REF 931 221

540 nm

Method(e) / Método

5211

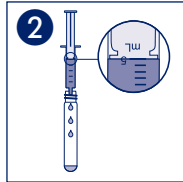
0.20–3.80 mg/L ClO₂



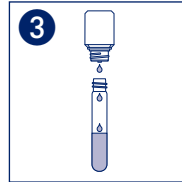
Probe / sample
échantillon / muestra



1
Küvetten spülen
Rinse test tubes
Rincer les éprouvettes
Lavar los tubos



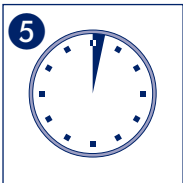
2
5 mL Probe
Sample
Echantillon
Muestra



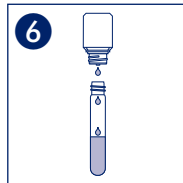
3
2 ∆ ClO₂-1



4
Schütteln
Shake
Agiter
Agitar



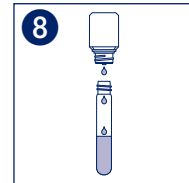
5
2'00 min



6
3 ∆ ClO₂-2



7
Schütteln
Shake
Agiter
Agitar



8
3 ∆ ClO₂-3



9
Schütteln
Shake
Agiter
Agitar



10
Säubern
Clean
Nettoyer
Limpiar



11
Messung
Measurement
Mesure
Medición



Meerwasser
Sea water
Eau de mer
Agua de mar

visocolor® ECO Cyanid

Cyanide / Cyanure / Cianuro

Test 5-22

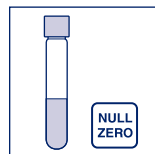
REF 931 222

585 nm

Method(e) / Método

5221

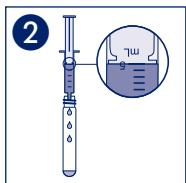
0.01–0.20 mg/L CN⁻



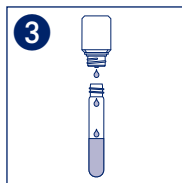
Probe / sample
échantillon / muestra



1
Küvetten spülen
Rinse test tubes
Rincer les éprouvettes
Lavar los tubos



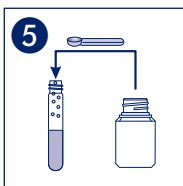
2
5 mL Probe
Sample
Echantillon
Muestra



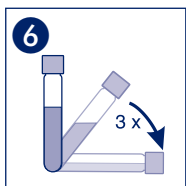
3
5 ∆ CN-1



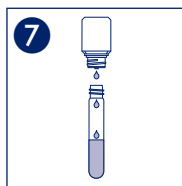
4
Schütteln
Shake
Agiter
Agitar



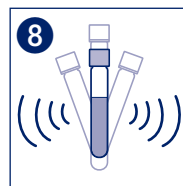
5
1 ∆ CN-2



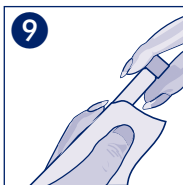
6
Umschwenken
Shake gently
Secouer légèrement
Mezclar volteándolo



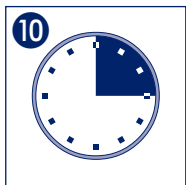
7
5 ∆ CN-3



8
Schütteln
Shake
Agiter
Agitar



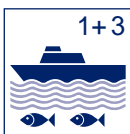
9
Säubern
Clean
Nettoyer
Limpiar



10
15'00 min



11
Messung
Measurement
Mesure
Medición



1+3
Meerwasser
Sea water
Eau de mer
Agua de mar

visocolor® ECO Cyanursäure

Cyanuric acid / Acide cyanurique / Ácido cianúrico

Test 5-23

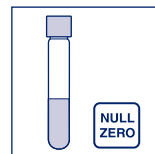
REF 931 223

540 nm

Method(e) / Método

5231

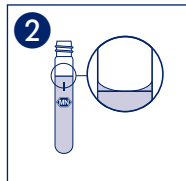
10–100 mg/L Cya



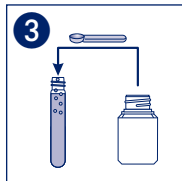
Probe / sample
échantillon / muestra



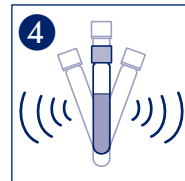
1
Küvetten spülen
Rinse test tubes
Rincer les éprouvettes
Lavar los tubos



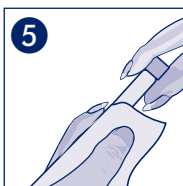
2
10 mL Probe
Sample
Echantillon
Muestra



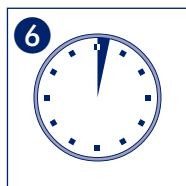
3
½ Cya-1



4
15 s Schütteln
Shake
Agiter
Agitar



5
Säubern
Clean
Nettoyer
Limpiar



6
2'00 min



7
Messung
Measurement
Mesure
Medición



Meerwasser
Sea water
Eau de mer
Agua de mar

visocolor[®] ECO Eisen 1

Iron / Fer / Hierro

540 nm

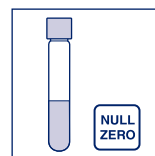
Method(e) / Método

5251

0.04–2.00 mg/L Fe

Test 5-25

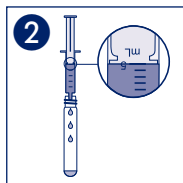
REF 931 225



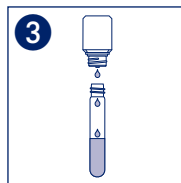
Probe / sample
échantillon / muestra



1
Küvetten spülen
Rinse test tubes
Rincer les éprouvettes
Lavar los tubos



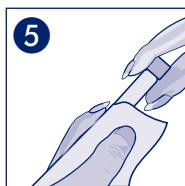
2
5 mL Probe
Sample
Echantillon
Muestra



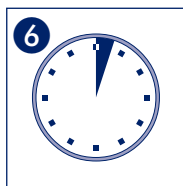
3
5 H_2O Fe-1



4
Schütteln
Shake
Agiter
Agitar



5
Säubern
Clean
Nettoyer
Limpiar



6
3'00 min



7
Messung
Measurement
Mesure
Medición



Meerwasser
Sea water
Eau de mer
Agua de mar

visocolor® ECO Eisen 2

Iron / Fer / Hierro

Test 5-26

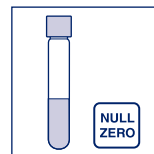
REF 931 226

540 nm

Method(e) / Método

5261

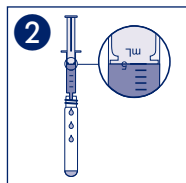
0.04–2.00 mg/L Fe



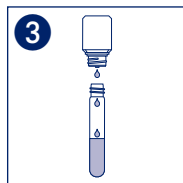
Probe / sample
échantillon / muestra



1
Küvetten spülen
Rinse test tubes
Rincer les éprouvettes
Lavar los tubos



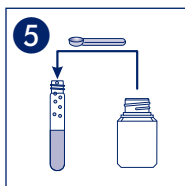
2
5 mL Probe
Sample
Echantillon
Muestra



3
4 ♀ Fe-1



4
Schütteln
Shake
Agiter
Agitar



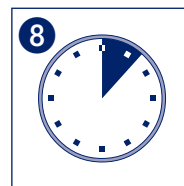
5
1 ♂ Fe-2



6
Schütteln
Shake
Agiter
Agitar



7
Säubern
Clean
Nettoyer
Limpiar



8
7'00 min



9
Messung
Measurement
Mesure
Medición



Meerwasser
Sea water
Eau de mer
Agua de mar

visocolor® ECO Fluorid

Fluoride / Fluorure / Fluoruro

Test 5-27

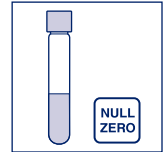
REF 931 227

585 nm

Method(e) / Método

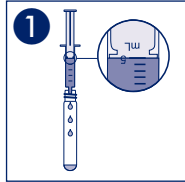
5271

0.1–2.0 mg/L F⁻

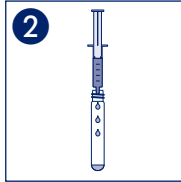


Nullwert / Blanc value
Zéro / Cero

Nullwert / Blanc value / Zéro / Cero



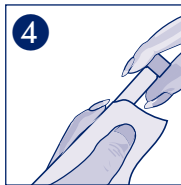
5 mL dest. Wasser
dist. water
d'eau distillée
agua dest.



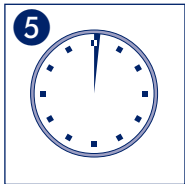
600 µL F-1



Schütteln
Shake
Agiter
Agitar



Säubern
Clean
Nettoyer
Limpiar



1'00 min

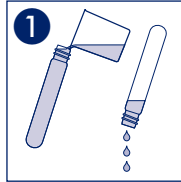


Nullwert
Blanc value
Zéro
Cero

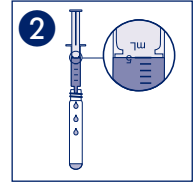


Meerwasser
Sea water
Eau de mer
Agua de mar

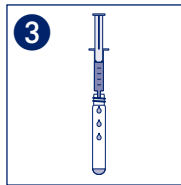
Messwert / Sample / Echantillon / Muestra



Küvetten spülen
Rinse test tubes
Rincer les éprouvettes
Lavar los tubos



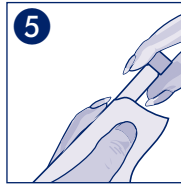
5 mL Probe
Sample
Echantillon
Muestra



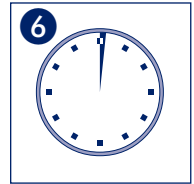
600 µL F-1



Schütteln
Shake
Agiter
Agitar



Säubern
Clean
Nettoyer
Limpiar



1'00 min



Messung
Measurement
Mesure
Medición

visocolor® ECO Hydrazin

Hydrazine / Idrazina

Test 5-30

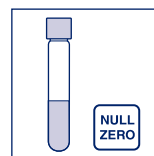
REF 931 230

436 nm

Method(e) / Método

5301

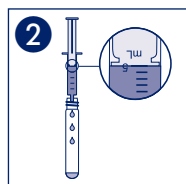
0.05–0.40 mg/L N_2H_4



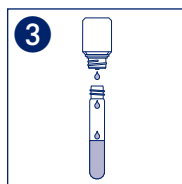
Probe / sample
échantillon / muestra



1
Küvetten spülen
Rinse test tubes
Rincer les éprouvettes
Lavar los tubos



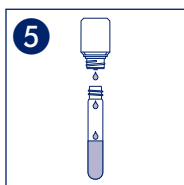
2
5 mL Probe
Sample
Echantillon
Muestra



3
5 N_2H_4 -1



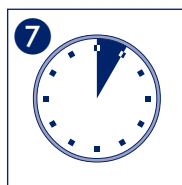
4
Schütteln
Shake
Agiter
Agitar



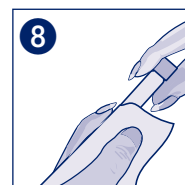
5
5 N_2H_4 -2



6
Schütteln
Shake
Agiter
Agitar



7
5'00 min



8
Säubern
Clean
Nettoyer
Limpiar



9
Messung
Measurement
Mesure
Medición



Meerwasser
Sea water
Eau de mer
Agua de mar

visocolor® ECO Kalium

Potassium / Potasio

Test 5-32

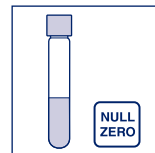
REF 931 232

690 nm

Method(e) / Método

5321

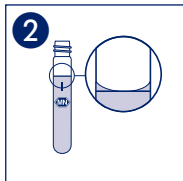
2–25 mg/L K⁺



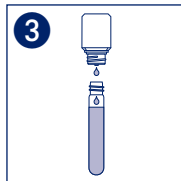
Probe / sample
échantillon / muestra



1
Küvetten spülen
Rinse test tubes
Rincer les éprouvettes
Lavar los tubos



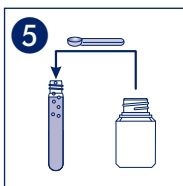
2
10 mL Probe
Sample
Echantillon
Muestra



3
15  K-1



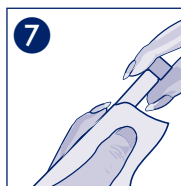
4
Schütteln
Shake
Agiter
Agitar



5
 K-2



6
30 s Schütteln
Shake
Agiter
Agitar



7
Säubern
Clean
Nettoyer
Limpiar



8
Messung sofort
Measurement immediately
Mesure immédiatement
Medición inmediatamente



1+1
Meerwasser
Sea water
Eau de mer
Agua de mar

visocolor® ECO Kieselsäure

Silica / Silice

Test 5-33

REF 931 233

690 nm

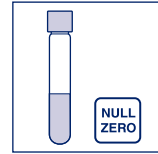
Method(e) / Método

5331

0.2–3.0 mg/L SiO₂

5332

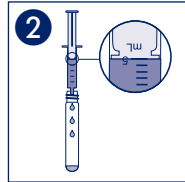
0.1–1.4 mg/L Si



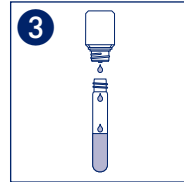
Probe / sample
échantillon / muestra



Küvetten spülen
Rinse test tubes
Rincer les éprouvettes
Lavar los tubos



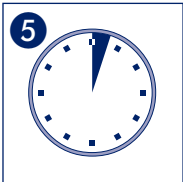
5 mL Probe
Sample
Echantillon
Muestra



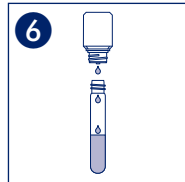
5 ⚡ SiO₂-1



Schütteln
Shake
Agiter
Agitar



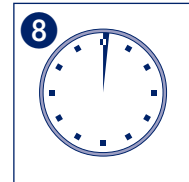
3'00 min



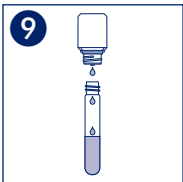
5 ⚡ SiO₂-2



Schütteln
Shake
Agiter
Agitar



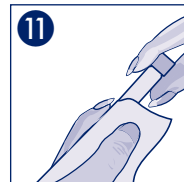
1'00 min



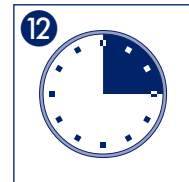
5 ⚡ SiO₂-3



Schütteln
Shake
Agiter
Agitar



Säubern
Clean
Nettoyer
Limpiar



15'00 min



Messung
Measurement
Mesure
Medición

Meerwasser
Sea water
Eau de mer
Agua de mar



visocolor® ECO Chlor 1 (frei)

Chlorine (free) / Chlore (libre) / Cloro (libre)

Test 5-35

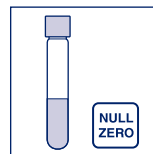
REF 931 035

540 nm

Method(e) / Método

5351

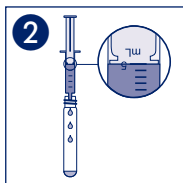
0.05–2.00 mg/L Cl₂



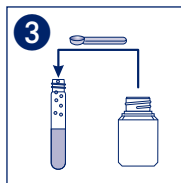
Probe / sample
échantillon / muestra



1
Küvetten spülen
Rinse test tubes
Rincer les éprouvettes
Lavar los tubos



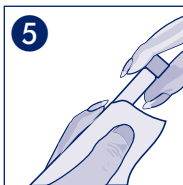
2
5 mL Probe
Sample
Echantillon
Muestra



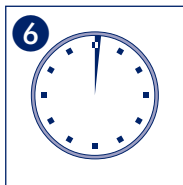
3
1 Pipette Cl₂-1



4
20 s Schütteln
Shake
Agiter
Agitar



5
Säubern
Clean
Nettoyer
Limpiar



6
1'00 min



7
Messung
Measurement
Mesure
Medición



Meerwasser
Sea water
Eau de mer
Agua de mar

visocolor® ECO Chlor 1 (gesamt)

Chlorine (total) / Chlore (totale) / Cloro (total)

Test 5-35

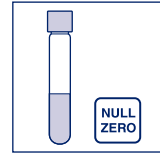
REF 931 035

540 nm

Method(e) / Método

5352

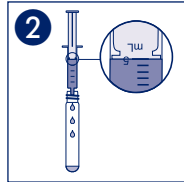
0.05–2.00 mg/L Cl₂



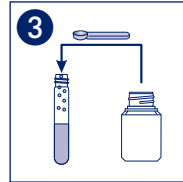
Probe / sample
échantillon / muestra



1
Küvetten spülen
Rinse test tubes
Rincer les éprouvettes
Lavar los tubos



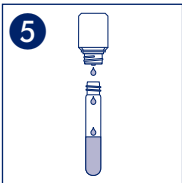
2
5 mL Probe
Sample
Echantillon
Muestra



3
1 mL Cl₂-1



4
20 s Schütteln
Shake
Agiter
Agitar



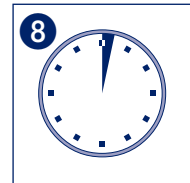
5
3 drops Cl₂-2



6
Schütteln
Shake
Agiter
Agitar



7
Säubern
Clean
Nettoyer
Limpiar



8
2'00 min



9
Messung
Measurement
Mesure
Medición



Meerwasser
Sea water
Eau de mer
Agua de mar

visicolor® ECO Kupfer

Copper / Cuivre / Cobre

Test 5-37

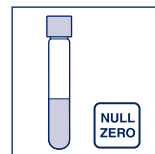
REF 931 237

585 nm

Method(e) / Método

5371

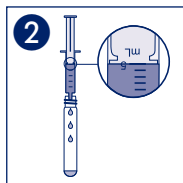
0.1–5.0 mg/L Cu²⁺



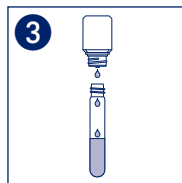
Probe / sample
échantillon / muestra



1
Küvetten spülen
Rinse test tubes
Rincer les éprouvettes
Lavar los tubos



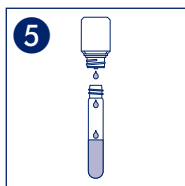
2
5 mL Probe
Sample
Echantillon
Muestra



3
5 ∆ Cu-1



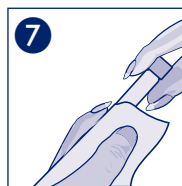
4
Schütteln
Shake
Agiter
Agitar



5 ∆ Cu-2



6
Schütteln
Shake
Agiter
Agitar



7
Säubern
Clean
Nettoyer
Limpiar



8
10'00 min



Messung
Measurement
Mesure
Medición



Meerwasser
Sea water
Eau de mer
Agua de mar

visocolor® ECO Mangan

Manganese / Manganèse / Manganeso

Test 5-38

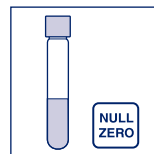
REF 931 238

436 nm

Method(e) / Método

5381

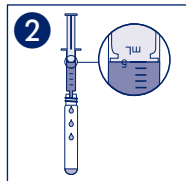
0.1–5.0 mg/L Mn



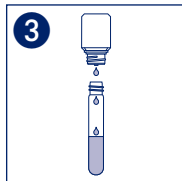
Probe / sample
échantillon / muestra



1
Küvetten spülen
Rinse test tubes
Rincer les éprouvettes
Lavar los tubos



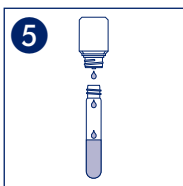
2
5 mL Probe
Sample
Echantillon
Muestra



3
5 滴 Mn-1



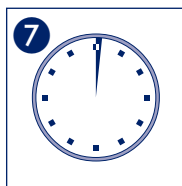
4
Schütteln
Shake
Agiter
Agitar



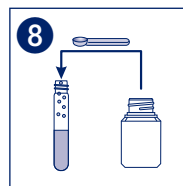
5
7 滴 Mn-2



6
Schütteln
Shake
Agiter
Agitar



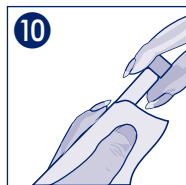
7
1'00 min



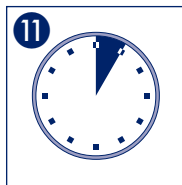
8
1 滴 Mn-3



9
Schütteln
Shake
Agiter
Agitar



10
Säubern
Clean
Nettoyer
Limpiar



11
5'00 min



12
Messung
Measurement
Mesure
Medición



Meerwasser
Sea water
Eau de mer
Agua de mar

visicolor® ECO Nickel

Níquel

470 nm

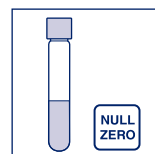
Method(e) / Método

5401

0.04–5.00 mg/L Ni²⁺

Test 5-40

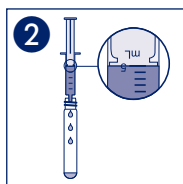
REF 931 240



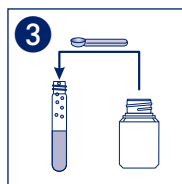
Probe / sample
échantillon / muestra



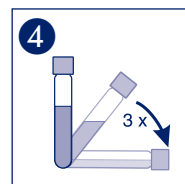
1
Küvetten spülen
Rinse test tubes
Rincer les éprouvettes
Lavar los tubos



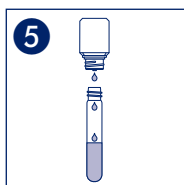
2
5 mL Probe
Sample
Echantillon
Muestra



3
1 Ni-1



4
Umschwenken
Shake gently
Secouer légèrement
Mezclar volteándolo



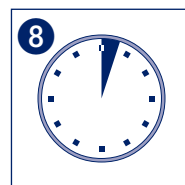
5
5 Ni-2



6
Schütteln
Shake
Agiter
Agitar



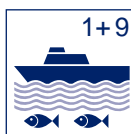
7
Säubern
Clean
Nettoyer
Limpiar



8
3'00 min



9
Messung
Measurement
Mesure
Medición



1+9
Meerwasser
Sea water
Eau de mer
Agua de mar

visocolor® ECO Nitrat

Nitrate / Nitrato

Test 5-41

REF 931 241

436 nm

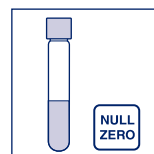
Method(e) / Método

5411

1.0–14.0 mg/L $\text{NO}_3\text{-N}$

5412

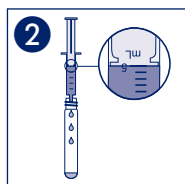
4.0–60.0 mg/L NO_3^-



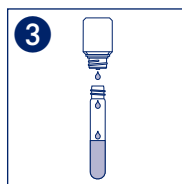
Probe / sample
échantillon / muestra



1
Küvetten spülen
Rinse test tubes
Rincer les éprouvettes
Lavar los tubos



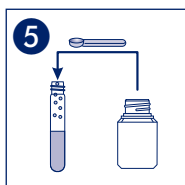
2
5 mL Probe
Sample
Echantillon
Muestra



3
5 $\text{NO}_3\text{-1}$



4
Schütteln
Shake
Agiter
Agitar



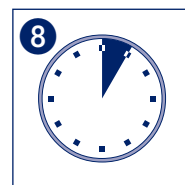
5
1 $\text{NO}_3\text{-2}$



6
1 min Kräftig schütteln
Shake well
Bien agiter
Agitar intensamente



7
Säubern
Clean
Nettoyer
Limpiar



8
5'00 min



9
Messung
Measurement
Mesure
Medición



Meerwasser
Sea water
Eau de mer
Agua de mar

visocolor® ECO Nitrit

Nitrite / Nitrito

Test 5-44

REF 931 244

540 nm

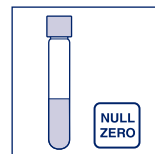
Method(e) / Método

5441

0.01–0.15 mg/L NO₂-N

5442

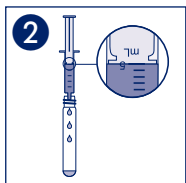
0.02–0.50 mg/L NO₂⁻



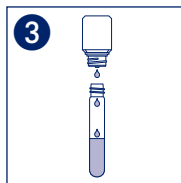
Probe / sample
échantillon / muestra



1
Küvetten spülen
Rinse test tubes
Rincer les éprouvettes
Lavar los tubos



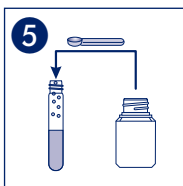
2
5 mL Probe
Sample
Echantillon
Muestra



3
4 Δ NO₂-1



4
Schütteln
Shake
Agiter
Agitar



5
1 Δ NO₂-2



6
Schütteln
Shake
Agiter
Agitar



7
Säubern
Clean
Nettoyer
Limpiar



8
10'00 min



Messung
Measurement
Mesure
Medición



Meerwasser
Sea water
Eau de mer
Agua de mar

visocolor® ECO pH 6.0–8.2

Test 5-70

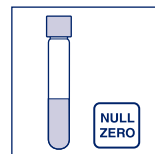
REF 931 270

436/540 nm

Method(e) / Método

5701

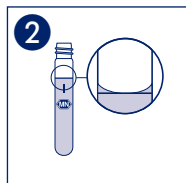
6.0–8.2 pH



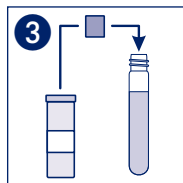
Probe / sample
échantillon / muestra



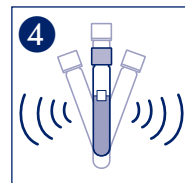
Küvetten spülen
Rinse test tubes
Rincer les éprouvettes
Lavar los tubos



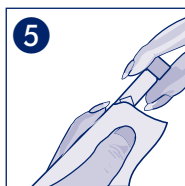
10 mL Probe
Sample
Echantillon
Muestra



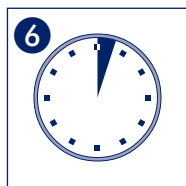
1 NANOFIX pH



Schütteln
Shake
Agiter
Agitar



Säubern
Clean
Nettoyer
Limpiar



3'00 min



Messung
Measurement
Mesure
Medición



Meerwasser
Sea water
Eau de mer
Agua de mar

visicolor® ECO Phosphat

Phosphate / Fosfato

Test 5-84

REF 931 284

690 nm

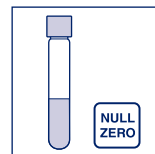
Method(e) / Método

5841

0.2–5.0 mg/L PO₄-P

5842

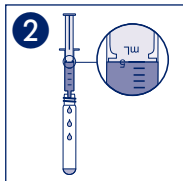
0.6–15.0 mg/L PO₄³⁻



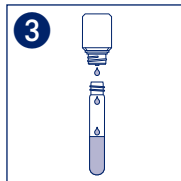
Probe / sample
échantillon / muestra



Küvetten spülen
Rinse test tubes
Rincer les éprouvettes
Lavar los tubos



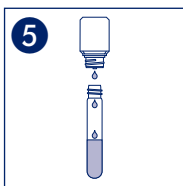
5 mL Probe
Sample
Echantillon
Muestra



6 ∆ PO₄-1



Schütteln
Shake
Agiter
Agitar



6 ∆ PO₄-2



Schütteln
Shake
Agiter
Agitar



Säubern
Clean
Nettoyer
Limpiar



10'00 min



Messung
Measurement
Mesure
Medición



Meerwasser
Sea water
Eau de mer
Agua de mar

visocolor® ECO Sauerstoff

Oxygen / Oxygène / Oxígeno

Test 5-88

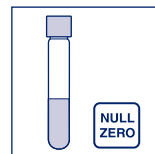
REF 931 288

540 nm

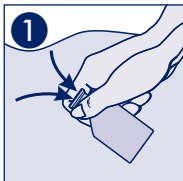
Method(e) / Método

5881

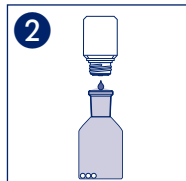
1–8 mg/L O₂



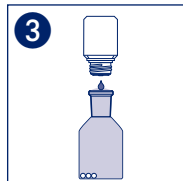
Probe / sample
échantillon / muestra



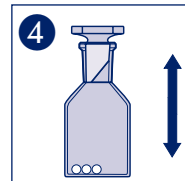
Probe
Sample
Echantillon
Muestra



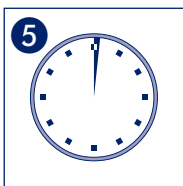
5 O_2 -1



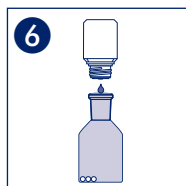
5 O_2 -2



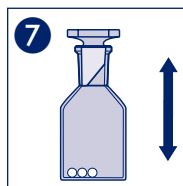
Schütteln
Shake
Agiter
Agitar



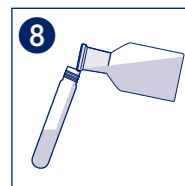
1'00 min



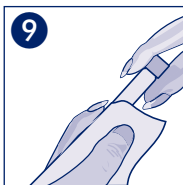
12 O_2 -3



Schütteln
Shake
Agiter
Agitar



5 mL in Rundküvette
into test tube
dans tube
en tubo



Säubern
Clean
Nettoyer
Limpiar



Messung sofort
Measurement immediately
Mesure immédiatement
Medición inmediatamente



Meerwasser
Sea water
Eau de mer
Agua de mar

visicolor® ECO Sulfat

Sulphate / Sulfate / Sulfato

Test 5-92

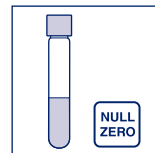
REF 931 292

436 nm

Method(e) / Método

5921

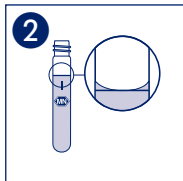
20–200 mg/L SO_4^{2-}



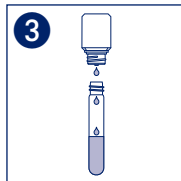
Probe / sample
échantillon / muestra



1
Küvetten spülen
Rinse test tubes
Rincer les éprouvettes
Lavar los tubos



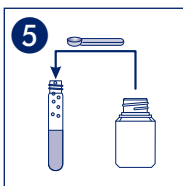
2
10 mL Probe
Sample
Echantillon
Muestra



3
10 $\text{SO}_4\text{-1}$



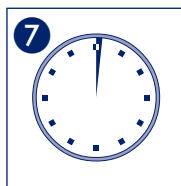
4
Schütteln
Shake
Agiter
Agitar



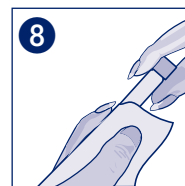
5
1 $\text{SO}_4\text{-2}$



6
Schütteln
Shake
Agiter
Agitar



7
1'00 min



8
Säubern
Clean
Nettoyer
Limpiar



9
Messung
Measurement
Mesure
Medición



10
1+49
Meerwasser
Sea water
Eau de mer
Agua de mar

visicolor® ECO Sulfid

Sulphide / Sulfure / Sulfuro

Test 5-94

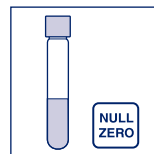
REF 931 294

620 nm

Method(e) / Método

5941

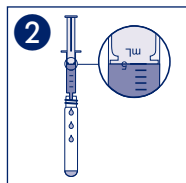
0.05–0.80 mg/L S²⁻



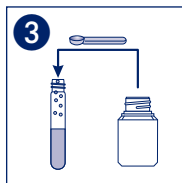
Probe / sample
échantillon / muestra



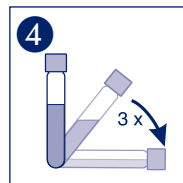
Küvetten spülen
Rinse test tubes
Rincer les éprouvettes
Lavar los tubos



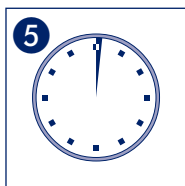
5 mL Probe
Sample
Echantillon
Muestra



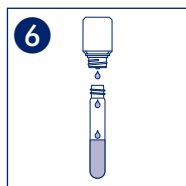
1 S-1



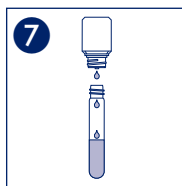
Umschwenken
Shake gently
Secouer légèrement
Mezclar volteándolo



1'00 min



5 S-2



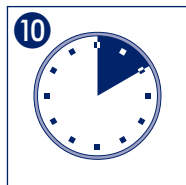
5 S-3



Schütteln
Shake
Agiter
Agitar



Säubern
Clean
Nettoyer
Limpiar



10'00 min



Messung
Measurement
Mesure
Medición



Meerwasser
Sea water
Eau de mer
Agua de mar

visocolor® ECO Zink

Zinc

620 nm

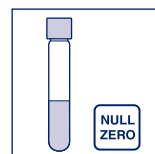
Method(e) / Método

5981

0.1–3.0 mg/L Zn²⁺

Test 5-98

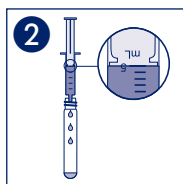
REF 931 298



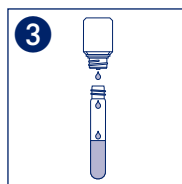
Probe / sample
échantillon / muestra



1
Küvetten spülen
Rinse test tubes
Rincer les éprouvettes
Lavar los tubos



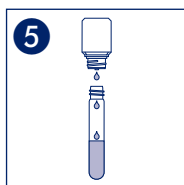
2
5 mL Probe
Sample
Echantillon
Muestra



3
5 ∆ Zn-1



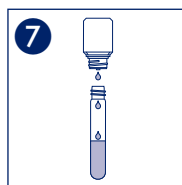
4
Schütteln
Shake
Agiter
Agitar



5
5 ∆ Zn-2



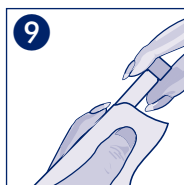
6
Schütteln
Shake
Agiter
Agitar



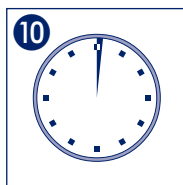
7
10 ∆ Zn-3



8
Schütteln
Shake
Agiter
Agitar



9
Säubern
Clean
Nettoyer
Limpiar



10
1'00 min



11
Messung
Measurement
Mesure
Medición



1+9
Meerwasser
Sea water
Eau de mer
Agua de mar

www.mn-net.com

MACHEREY-NAGEL



MACHEREY-NAGEL GmbH & Co. KG
Valenciennes 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

