

# VISOCOLOR<sup>®</sup> ECO

## **VISOCOLOR<sup>®</sup> ECO**

Testanleitungen

Test instructions

Instructions des tests

Instrucciones de los tests



für Kompaktphotometer PF-12<sup>Plus</sup>  
for compact photometer PF-12<sup>Plus</sup>  
pour photomètre compact PF-12<sup>Plus</sup>  
para fotómetro compacto PF-12<sup>Plus</sup>

**MACHEREY-NAGEL**

[www.mn-net.com](http://www.mn-net.com)



# visocolor® ECO Alkalinität TA

## Alkalinity TA / Alcalinité TA / Alkalinidad TA

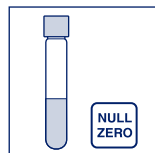
### Test 5-04

REF 931 204

436/585 nm

Method(e) / Método

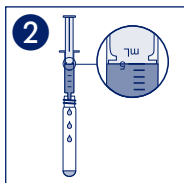
|             |                                 |
|-------------|---------------------------------|
| <b>5041</b> | 0.3–14 °d                       |
| <b>5042</b> | 0.10–5.00 mmol/L H <sup>+</sup> |
| <b>5043</b> | 0.4–17.5 °e                     |
| <b>5044</b> | 0.5–25.0 °f                     |
| <b>5045</b> | 5–250 mg/L CaCO <sub>3</sub>    |



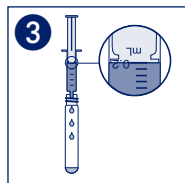
Probe / sample  
échantillon / muestra



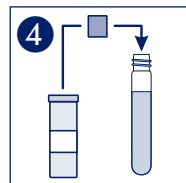
Küvetten spülen  
Rinse test tubes  
Rincer les éprouvettes  
Lavar los tubos



5 mL Probe  
Sample  
Echantillon  
Muestra



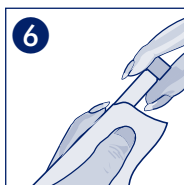
200 µL TA-1



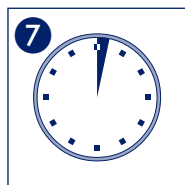
1 NANOFIX TA-2



Schütteln  
Shake  
Agiter  
Agitar



Säubern  
Clean  
Nettoyer  
Limpiar



2'00 min



Messung  
Measurement  
Mesure  
Medición

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

| °d | °e   | °f   | mg/L CaCO <sub>3</sub> | mmol/L H <sup>+</sup> | 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

# visicolor® ECO Ammonium 3

## Amonio

690 nm

Method(e) / Método

5081

5082

5083

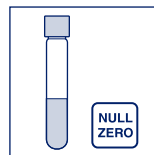
0.1–2.0 mg/L  $\text{NH}_4\text{-N}$

0.1–2.5 mg/L  $\text{NH}_4^+$

0.1–2.0 mg/L  $\text{NH}_3$

### Test 5-08

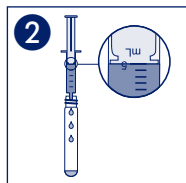
REF 931 208



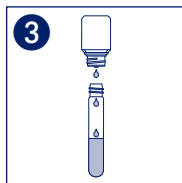
Probe / sample  
échantillon / muestra



Küvetten spülen  
Rinse test tubes  
Rincer les éprouvettes  
Lavar los tubos



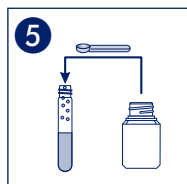
5 mL Probe  
Sample  
Echantillon  
Muestra



10  $\text{NH}_4\text{-1}$



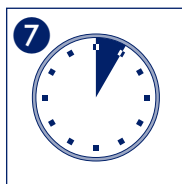
Schütteln  
Shake  
Agiter  
Agitar



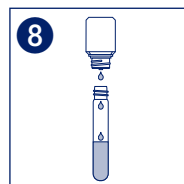
1  $\text{NH}_4\text{-2}$



Schütteln  
Shake  
Agiter  
Agitar



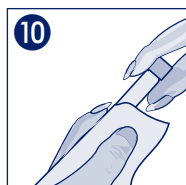
5'00 min



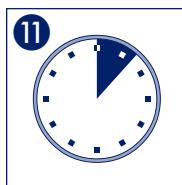
4  $\text{NH}_4\text{-3}$



Schütteln  
Shake  
Agiter  
Agitar



Säubern  
Clean  
Nettoyer  
Limpiar



7'00 min



Messung  
Measurement  
Mesure  
Medición



Meerwasser  
Sea water  
Eau de mer  
Agua de mar

# visocolor® ECO Ammonium 15

## Amonio

585 nm

Method(e) / Método

5101

0.4–6.2 mg/L  $\text{NH}_4\text{-N}$

5102

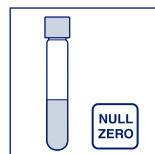
0.5–8.0 mg/L  $\text{NH}_4^+$

5103

0.5–8.0 mg/L  $\text{NH}_3$

# Test 5-10

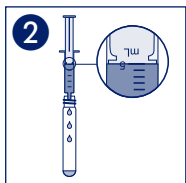
REF 931 210



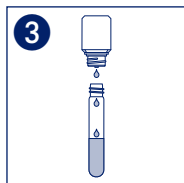
Probe / sample  
échantillon / muestra



Küvetten spülen  
Rinse test tubes  
Rincer les éprouvettes  
Lavar los tubos



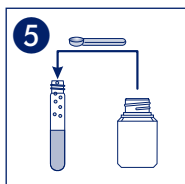
5 mL Probe  
Sample  
Echantillon  
Muestra



10  $\Delta$   $\text{NH}_4\text{-1}$



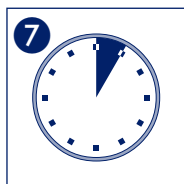
Schütteln  
Shake  
Agiter  
Agitar



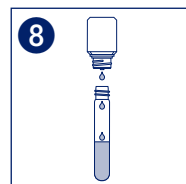
1  $\Delta$   $\text{NH}_4\text{-2}$



Schütteln  
Shake  
Agiter  
Agitar



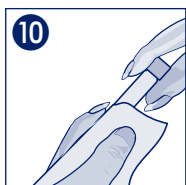
5'00 min



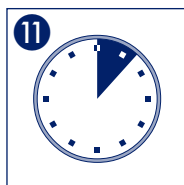
4  $\Delta$   $\text{NH}_4\text{-3}$



Schütteln  
Shake  
Agiter  
Agitar



Säubern  
Clean  
Nettoyer  
Limpiar



7'00 min



Messung  
Measurement  
Mesure  
Medición



Meerwasser  
Sea water  
Eau de mer  
Agua de mar

# **visocolor® ECO Brom (frei)**

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

**540 nm**

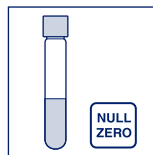
Method(e) / Método

**5111**

0.10–13.00 mg/L Br<sub>2</sub>

**Test 5-11**

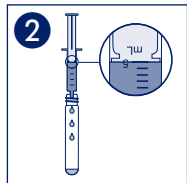
REF 931 211



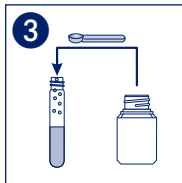
Probe / sample  
échantillon / muestra



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



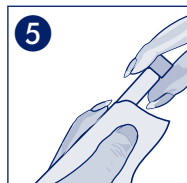
**2**  
5 mL Probe  
Sample  
Echantillon  
Muestra



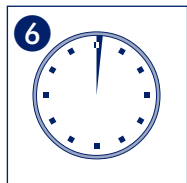
**3**  
1 Br<sub>2</sub>-1



**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<sup>®</sup> ECO Brom (gesamt)

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

### Test 5-11

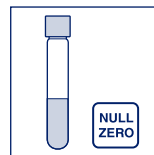
REF 931 211

540 nm

Method(e) / Método

5112

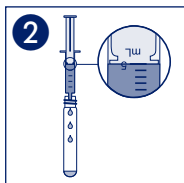
0.10–13.00 mg/L Br<sub>2</sub>



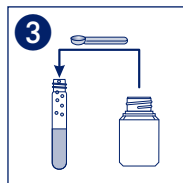
Probe / sample  
échantillon / muestra



Küvetten spülen  
Rinse test tubes  
Rincer les éprouvettes  
Lavar los tubos



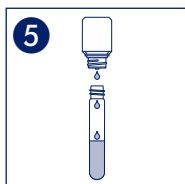
5 mL Probe  
Sample  
Echantillon  
Muestra



1 Br<sub>2</sub>-1



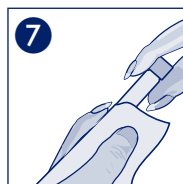
20 s Schütteln  
Shake  
Agiter  
Agitar



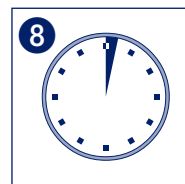
3 Br<sub>2</sub>-2



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 2 (frei)

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

Test 5-15/5-16

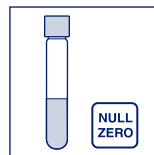
REF 931 215/931 216

540 nm

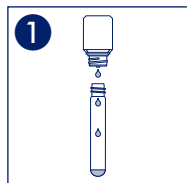
Method(e) / Método

5151/5161

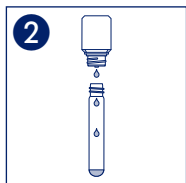
0.10–2.00 mg/L Cl<sub>2</sub>



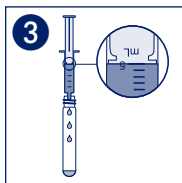
Probe / sample  
échantillon / muestra



3 ♀ Cl<sub>2</sub>-1



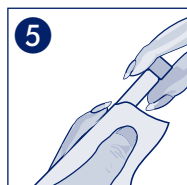
3 ♀ Cl<sub>2</sub>-2



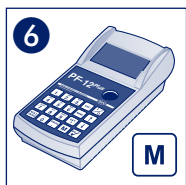
5 mL Probe  
Sample  
Echantillon  
Muestra



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

# visocolor® ECO Chlor 2 (gesamt)

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

### Test 5-15

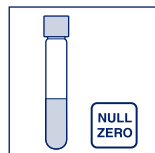
REF 931 215

540 nm

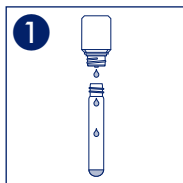
Method(e) / Método

5152

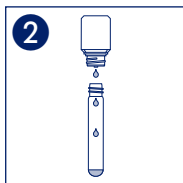
0.10–2.00 mg/L Cl<sub>2</sub>



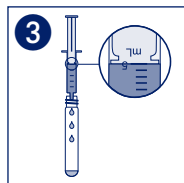
Probe / sample  
échantillon / muestra



3 ♡ Cl<sub>2</sub>-1



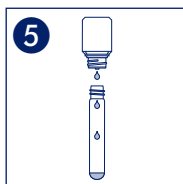
3 ♡ Cl<sub>2</sub>-2



5 mL Probe  
Sample  
Echantillon  
Muestra



Schütteln  
Shake  
Agiter  
Agitar



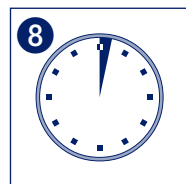
3 ♡ Cl<sub>2</sub>-3



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

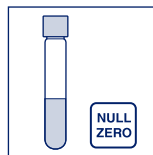
REF 931 217/931 219

540 nm

Method(e) / Método

5171/5191

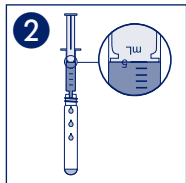
0.05–6.00 mg/L Cl<sub>2</sub>



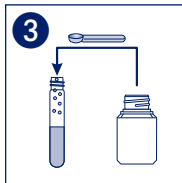
Probe / sample  
échantillon / muestra



Küvetten spülen  
Rinse test tubes  
Rincer les éprouvettes  
Lavar los tubos



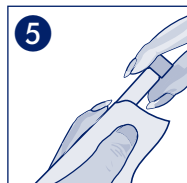
5 mL Probe  
Sample  
Echantillon  
Muestra



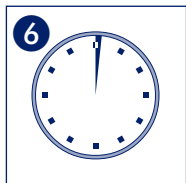
1 Cl<sub>2</sub>-1



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

# visocolor® ECO Chlor 6 (gesamt)

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

### Test 5-17

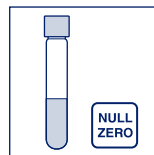
REF 931 217

540 nm

Method(e) / Método

5172

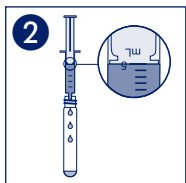
0.05–6.00 mg/L Cl<sub>2</sub>



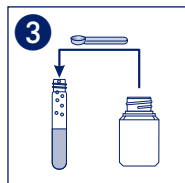
Probe / sample  
échantillon / muestra



Küvetten spülen  
Rinse test tubes  
Rincer les éprouvettes  
Lavar los tubos



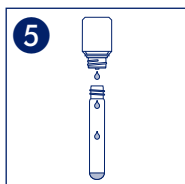
5 mL Probe  
Sample  
Echantillon  
Muestra



1 Cl<sub>2</sub>-1



20 s Schütteln  
Shake  
Agiter  
Agitar



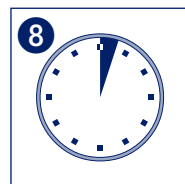
3 Cl<sub>2</sub>-2



Schütteln  
Shake  
Agiter  
Agitar



Säubern  
Clean  
Nettoyer  
Limpiar



3'00 min



Messung  
Measurement  
Mesure  
Medición



Meerwasser  
Sea water  
Eau de mer  
Agua de mar

# visocolor® ECO Chlorid

## Chloride / Chlorure / Cloruro

470 nm

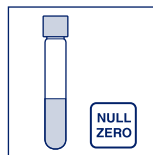
Method(e) / Método

5181

1–50 mg/L Cl<sup>-</sup>

### Test 5-18

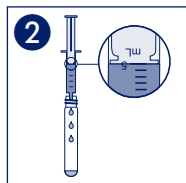
REF 931 218



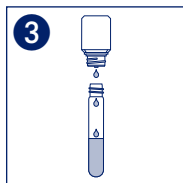
Probe / sample  
échantillon / muestra



Küvetten spülen  
Rinse test tubes  
Rincer les éprouvettes  
Lavar los tubos



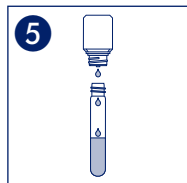
5 mL Probe  
Sample  
Echantillon  
Muestra



10 ♀ CI-1



Schütteln  
Shake  
Agiter  
Agitar



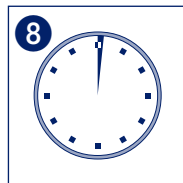
10 ♀ CI-2



Schütteln  
Shake  
Agiter  
Agitar



Säubern  
Clean  
Nettoyer  
Limpiar



1'00 min



Messung  
Measurement  
Mesure  
Medición



Meerwasser  
Sea water  
Eau de mer  
Agua de mar

# visocolor® ECO Chrom(VI)

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

### Test 5-20

REF 931 220

540 nm

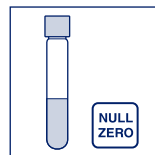
Method(e) / Método

5201

0.02–0.50 mg/L Cr(VI)

5202

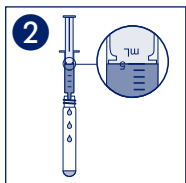
0.04–1.00 mg/L CrO<sub>4</sub><sup>2-</sup>



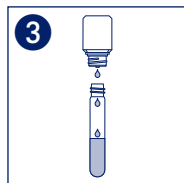
Probe / sample  
échantillon / muestra



Küvetten spülen  
Rinse test tubes  
Rincer les éprouvettes  
Lavar los tubos



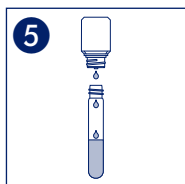
5 mL Probe  
Sample  
Echantillon  
Muestra



5 ♀ Cr-1



Schütteln  
Shake  
Agiter  
Agitar



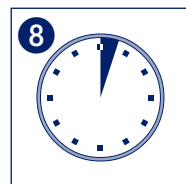
5 ♀ Cr-2



Schütteln  
Shake  
Agiter  
Agitar



Säubern  
Clean  
Nettoyer  
Limpiar



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

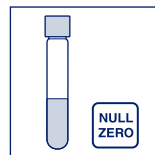
REF 931 221

540 nm

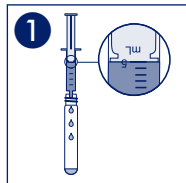
Method(e) / Método

5211

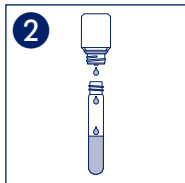
0.20–3.80 mg/L ClO<sub>2</sub>



Probe / sample  
échantillon / muestra



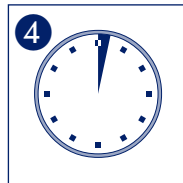
5 mL Probe  
Sample  
Echantillon  
Muestra



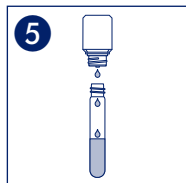
2 ⚭ ClO<sub>2</sub>-1



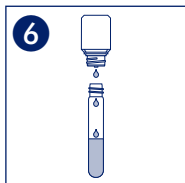
Schütteln  
Shake  
Agiter  
Agitar



2'00 min



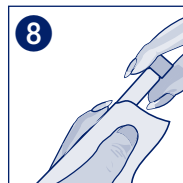
3 ⚭ ClO<sub>2</sub>-2



3 ⚭ ClO<sub>2</sub>-3



Schütteln  
Shake  
Agiter  
Agitar



Säubern  
Clean  
Nettoyer  
Limpiar



Messung  
Measurement  
Mesure  
Medición



Meerwasser  
Sea water  
Eau de mer  
Agua de mar

# visocolor<sup>®</sup> ECO Cyanid

## Cyanide / Cyanure / Cianuro

### Test 5-22

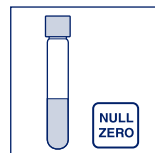
REF 931 222

690 nm

Method(e) / Método

5221

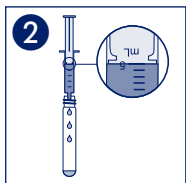
0.01–0.20 mg/L CN<sup>-</sup>



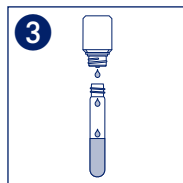
Probe / sample  
échantillon / muestra



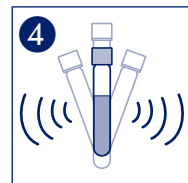
Küvetten spülen  
Rinse test tubes  
Rincer les éprouvettes  
Lavar los tubos



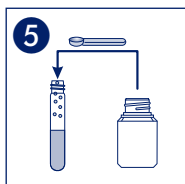
5 mL Probe  
Sample  
Echantillon  
Muestra



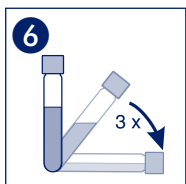
5 CN-1



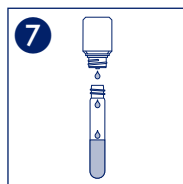
Schütteln  
Shake  
Agiter  
Agitar



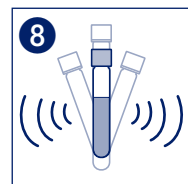
1 CN-2



Umschwenken  
Shake gently  
Secouer légèrement  
Mezclar volteándolo



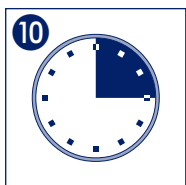
5 CN-3



Schütteln  
Shake  
Agiter  
Agitar



Säubern  
Clean  
Nettoyer  
Limpiar



15'00 min



Messung  
Measurement  
Mesure  
Medición



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

# visocolor® ECO Cyanursäure

Cyanuric acid / Acide cyanurique / Ácido cianúrico

540 nm

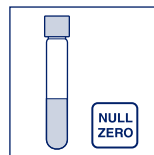
Method(e) / Método

5231

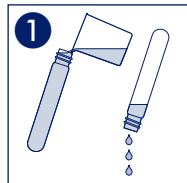
10–100 mg/L Cya

**Test 5-23**

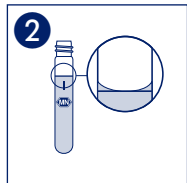
REF 931 223



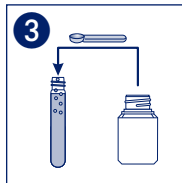
Probe / sample  
échantillon / muestra



Küvetten spülen  
Rinse test tubes  
Rincer les éprouvettes  
Lavar los tubos



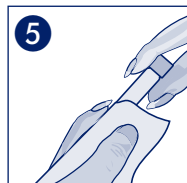
10 mL Probe  
Sample  
Échantillon  
Muestra



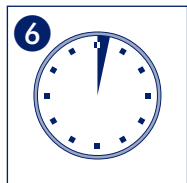
½ Cya-1



15 s 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<sup>®</sup> ECO Eisen 1

## Iron / Fer / Hierro

540 nm

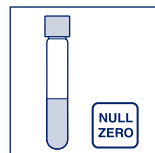
Method(e) / Método

5251

0.04–2.00 mg/L Fe

### Test 5-25

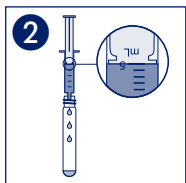
REF 931 225



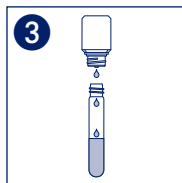
Probe / sample  
échantillon / muestra



Küvetten spülen  
Rinse test tubes  
Rincer les éprouvettes  
Lavar los tubos



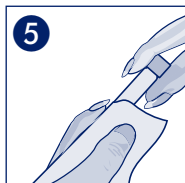
5 mL Probe  
Sample  
Echantillon  
Muestra



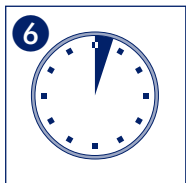
5 Fe-1



Schütteln  
Shake  
Agiter  
Agitar



Säubern  
Clean  
Nettoyer  
Limpiar



3'00 min



Messung  
Measurement  
Mesure  
Medición



Meerwasser  
Sea water  
Eau de mer  
Agua de mar

# visocolor® ECO Eisen 2

## Iron / Fer / Hierro

540 nm

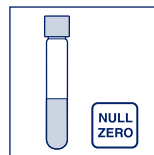
Method(e) / Método

5261

0.04–2.00 mg/L Fe

### Test 5-26

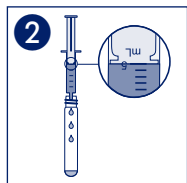
REF 931 226



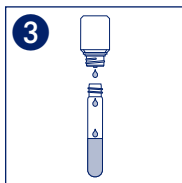
Probe / sample  
échantillon / muestra



Küvetten spülen  
Rinse test tubes  
Rincer les éprouvettes  
Lavar los tubos



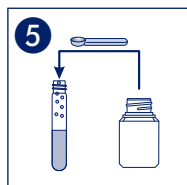
5 mL Probe  
Sample  
Echantillon  
Muestra



4 滴 Fe-1



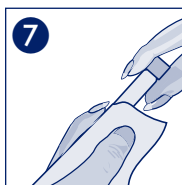
Schütteln  
Shake  
Agiter  
Agitar



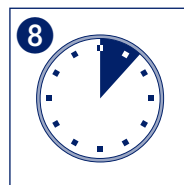
1 滴 Fe-2



Schütteln  
Shake  
Agiter  
Agitar



Säubern  
Clean  
Nettoyer  
Limpiar



7'00 min



Messung  
Measurement  
Mesure  
Medición



Meerwasser  
Sea water  
Eau de mer  
Agua de mar

# visicolor<sup>®</sup> ECO Fluorid

## Fluoride / Fluorure / Fluoruro

### Test 5-27

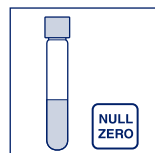
REF 931 227

585 nm

Method(e) / Método

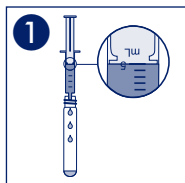
5271

0.1–2.0 mg/L F<sup>-</sup>

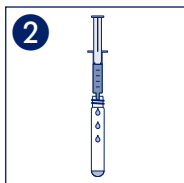


Nullwert / Blanc value  
Zéro / Cero

#### Nullwert / Blanc value / Zéro / Cero



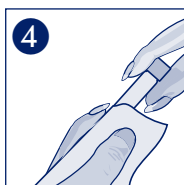
5 mL dest. Wasser  
dist. water  
d'eau distillée  
agua dest.



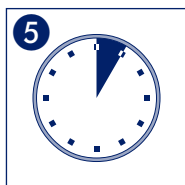
500 µL F-1



Schütteln  
Shake  
Agiter  
Agitar



Säubern  
Clean  
Nettoyer  
Limpiar



5'00 min



Nullwert  
Blanc value  
Zéro  
Cero

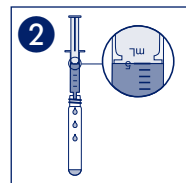


Meerwasser  
Sea water  
Eau de mer  
Agua de mar

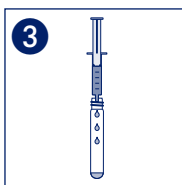
#### Messwert / Sample / Echantillon / Muestra



Küvetten spülen  
Rinse test tubes  
Rincer les éprouvettes  
Lavar los tubos



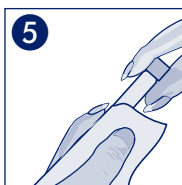
5 mL Probe  
Sample  
Echantillon  
Muestra



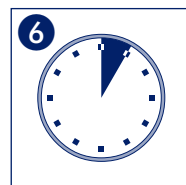
500 µL F-1



Schütteln  
Shake  
Agiter  
Agitar



Säubern  
Clean  
Nettoyer  
Limpiar



5'00 min



Messung  
Measurement  
Mesure  
Medición

# visocolor® ECO Hydrazin

## Hydrazine / Idrazina

436 nm

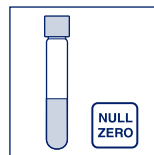
Method(e) / Método

5301

0.05–0.40 mg/L  $\text{N}_2\text{H}_4$

### Test 5-30

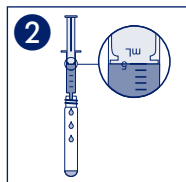
REF 931 230



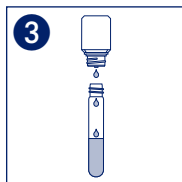
Probe / sample  
échantillon / muestra



Küvetten spülen  
Rinse test tubes  
Rincer les éprouvettes  
Lavar los tubos



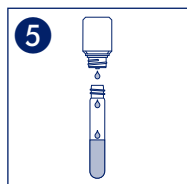
5 mL Probe  
Sample  
Echantillon  
Muestra



5  $\text{N}_2\text{H}_4$ -1



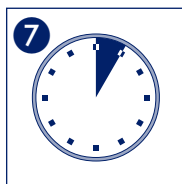
Schütteln  
Shake  
Agiter  
Agitar



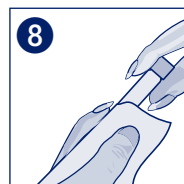
5  $\text{N}_2\text{H}_4$ -2



Schütteln  
Shake  
Agiter  
Agitar



5'00 min



Säubern  
Clean  
Nettoyer  
Limpiar



Messung  
Measurement  
Mesure  
Medición



Meerwasser  
Sea water  
Eau de mer  
Agua de mar

# visicolor<sup>®</sup> ECO Kalium

## Potassium / Potasio

### Test 5-32

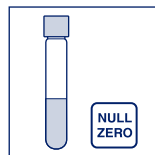
REF 931 232

690 nm

Method(e) / Método

5321

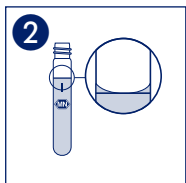
2–25 mg/L K<sup>+</sup>



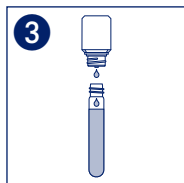
Probe / sample  
échantillon / muestra



Küvetten spülen  
Rinse test tubes  
Rincer les éprouvettes  
Lavar los tubos



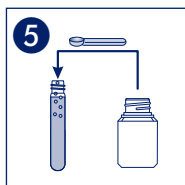
10 mL Probe  
Sample  
Echantillon  
Muestra



15 ♀ K-1



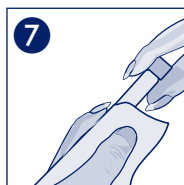
Schütteln  
Shake  
Agiter  
Agitar



1 ♂ K-2



30 s 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

# visocolor® ECO Kieselsäure

## Silica / Silice

690 nm

Method(e) / Método

5331

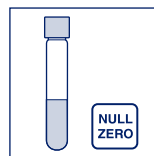
0.2–3.0 mg/L SiO<sub>2</sub>

5332

0.1–1.4 mg/L Si

### Test 5-33

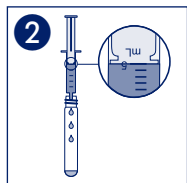
REF 931 233



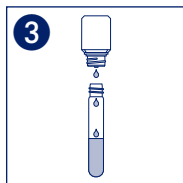
Probe / sample  
échantillon / muestra



Küvetten spülen  
Rinse test tubes  
Rincer les éprouvettes  
Lavar los tubos



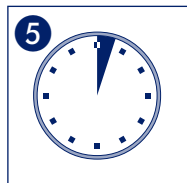
5 mL Probe  
Sample  
Echantillon  
Muestra



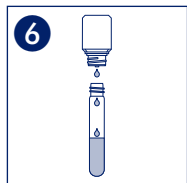
5 ⚡ SiO<sub>2</sub>-1



Schütteln  
Shake  
Agiter  
Agitar



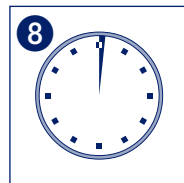
3'00 min



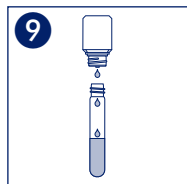
5 ⚡ SiO<sub>2</sub>-2



Schütteln  
Shake  
Agiter  
Agitar



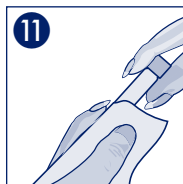
1'00 min



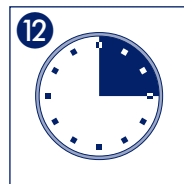
5 ⚡ SiO<sub>2</sub>-3



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<sup>®</sup> ECO Chlor 1 (frei)

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

**Test 5-35**

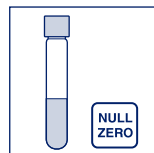
REF 931 035

540 nm

Method(e) / Método

5351

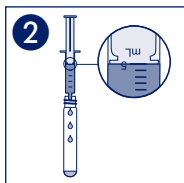
0.05–2.00 mg/L Cl<sub>2</sub>



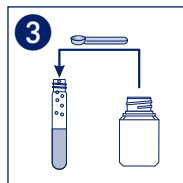
Probe / sample  
échantillon / muestra



Küvetten spülen  
Rinse test tubes  
Rincer les éprouvettes  
Lavar los tubos



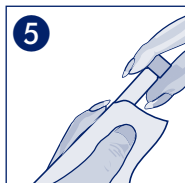
5 mL Probe  
Sample  
Echantillon  
Muestra



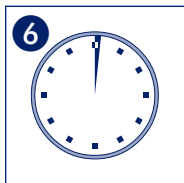
1  $\text{Cl}_2$ -1



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

# visocolor® ECO Chlor 1 (gesamt)

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

540 nm

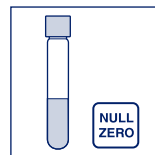
Method(e) / Método

5352

0.05–2.00 mg/L Cl<sub>2</sub>

**Test 5-35**

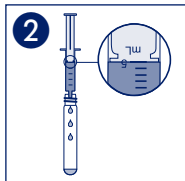
REF 931 035



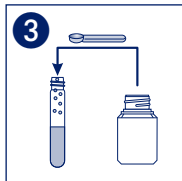
Probe / sample  
échantillon / muestra



Küvetten spülen  
Rinse test tubes  
Rincer les éprouvettes  
Lavar los tubos



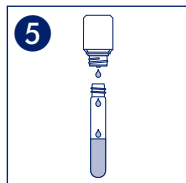
5 mL Probe  
Sample  
Echantillon  
Muestra



1 Cl<sub>2</sub>-1



20 s Schütteln  
Shake  
Agiter  
Agitar



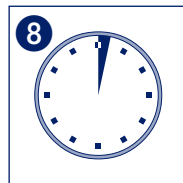
3 Cl<sub>2</sub>-2



Schütteln  
Shake  
Agiter  
Agitar



Säubern  
Clean  
Nettoyer  
Limpiar



2'00 min



Messung  
Measurement  
Mesure  
Medición



Meerwasser  
Sea water  
Eau de mer  
Agua de mar

# visicolor<sup>®</sup> ECO Kupfer

Copper / Cuivre / Cobre

## Test 5-37

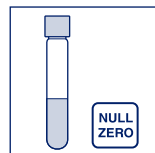
REF 931 237

585 nm

Method(e) / Método

5371

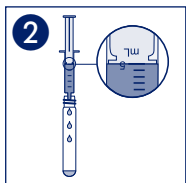
0.1–5.0 mg/L Cu<sup>2+</sup>



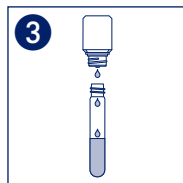
Probe / sample  
échantillon / muestra



Küvetten spülen  
Rinse test tubes  
Rincer les éprouvettes  
Lavar los tubos



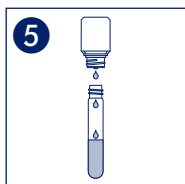
5 mL Probe  
Sample  
Echantillon  
Muestra



5 ♀ Cu-1



Schütteln  
Shake  
Agiter  
Agitar



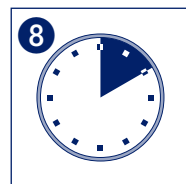
5 ♀ Cu-2



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 Mangan

## Manganese / Manganèse / Manganeso

436 nm

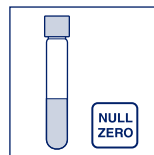
Method(e) / Método

5381

0.1–5.0 mg/L Mn

### Test 5-38

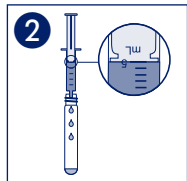
REF 931 238



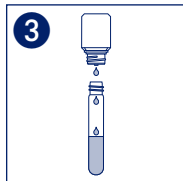
Probe / sample  
échantillon / muestra



Küvetten spülen  
Rinse test tubes  
Rincer les éprouvettes  
Lavar los tubos



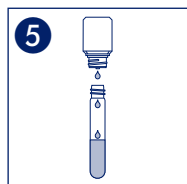
5 mL Probe  
Sample  
Echantillon  
Muestra



5 滴 Mn-1



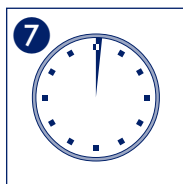
Schütteln  
Shake  
Agiter  
Agitar



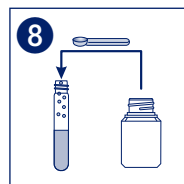
7 滴 Mn-2



Schütteln  
Shake  
Agiter  
Agitar



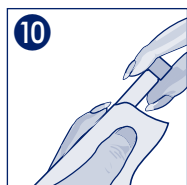
1'00 min



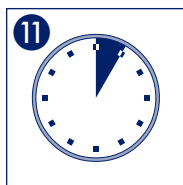
1 滴 Mn-3



Schütteln  
Shake  
Agiter  
Agitar



Säubern  
Clean  
Nettoyer  
Limpiar



5'00 min



Messung  
Measurement  
Mesure  
Medición



Meerwasser  
Sea water  
Eau de mer  
Agua de mar

# visocolor® ECO Nickel

## Níquel

470 nm

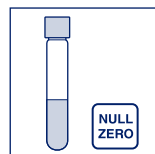
Method(e) / Método

5401

0.04–5.00 mg/L Ni<sup>2+</sup>

### Test 5-40

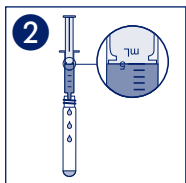
REF 931 240



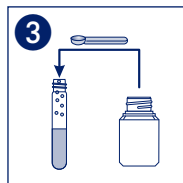
Probe / sample  
échantillon / muestra



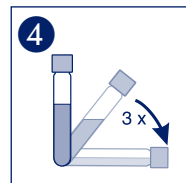
Küvetten spülen  
Rinse test tubes  
Rincer les éprouvettes  
Lavar los tubos



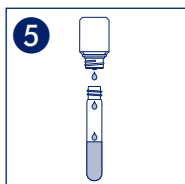
5 mL Probe  
Sample  
Echantillon  
Muestra



1 Ni-1



Umschwenken  
Shake gently  
Secouer légèrement  
Mezclar volteándolo



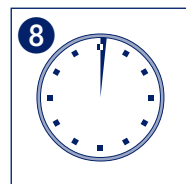
5 Ni-2



Schütteln  
Shake  
Agiter  
Agitar



Säubern  
Clean  
Nettoyer  
Limpiar



1'00 min



Messung  
Measurement  
Mesure  
Medición



Meerwasser  
Sea water  
Eau de mer  
Agua de mar

# visocolor® ECO Nitrat

Nitrate / Nitrato

436 nm

Method(e) / Método

5411

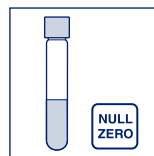
1.0–14.0 mg/L  $\text{NO}_3^-$ -N

5412

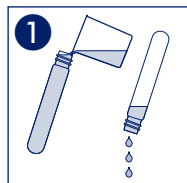
4–60 mg/L  $\text{NO}_3^-$

## Test 5-41

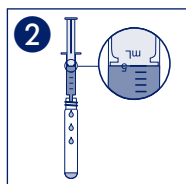
REF 931 241



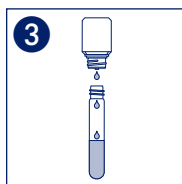
Probe / sample  
échantillon / muestra



Küvetten spülen  
Rinse test tubes  
Rincer les éprouvettes  
Lavar los tubos



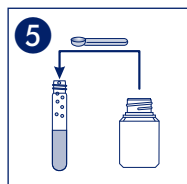
5 mL Probe  
Sample  
Echantillon  
Muestra



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



Schütteln  
Shake  
Agiter  
Agitar



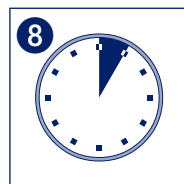
1  $\text{NO}_3^-$ -2



1 min Kräftig schütteln  
Shake well  
Bien agiter  
Agitar intensamente



Säubern  
Clean  
Nettoyer  
Limpiar



5'00 min



Messung  
Measurement  
Mesure  
Medición



Meerwasser  
Sea water  
Eau de mer  
Agua de mar

# visicolor<sup>®</sup> ECO Nitrit

## Nitrite / Nitrito

### Test 5-44

REF 931 244

540 nm

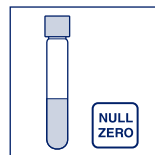
Method(e) / Método

5441

0.01–0.15 mg/L NO<sub>2</sub>-N

5442

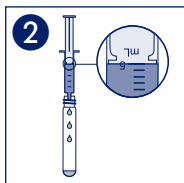
0.02–0.50 mg/L NO<sub>2</sub><sup>-</sup>



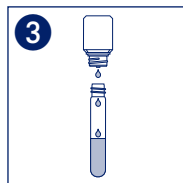
Probe / sample  
échantillon / muestra



Küvetten spülen  
Rinse test tubes  
Rincer les éprouvettes  
Lavar los tubos



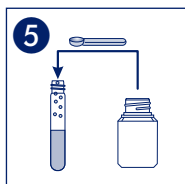
5 mL Probe  
Sample  
Echantillon  
Muestra



4 NO<sub>2</sub>-1



Schütteln  
Shake  
Agiter  
Agitar



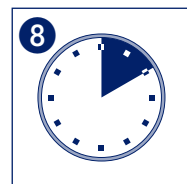
1 NO<sub>2</sub>-2



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 pH 6.0–8.2

**Test 5-70**

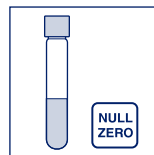
REF 931 270

436/540 nm

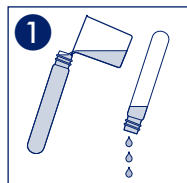
Method(e) / Método

5701

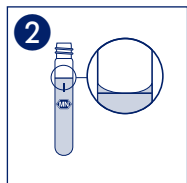
6.0–8.2 pH



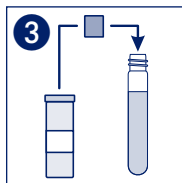
Probe / sample  
échantillon / muestra



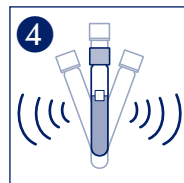
Küvetten spülen  
Rinse test tubes  
Rincer les éprouvettes  
Lavar los tubos



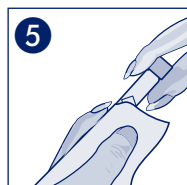
10 mL Probe  
Sample  
Echantillon  
Muestra



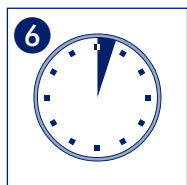
1 **NANOFIX** pH



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

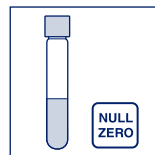
Method(e) / Método

5841

0.2–5.0 mg/L  $\text{PO}_4\text{-P}$

5842

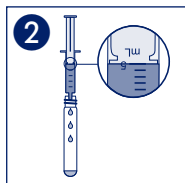
0.6–15.0 mg/L  $\text{PO}_4^{3-}$



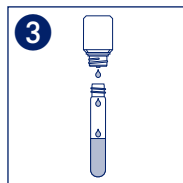
Probe / sample  
échantillon / muestra



Küvetten spülen  
Rinse test tubes  
Rincer les éprouvettes  
Lavar los tubos



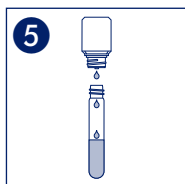
5 mL Probe  
Sample  
Echantillon  
Muestra



6  $\text{PO}_4\text{-1}$



Schütteln  
Shake  
Agiter  
Agitar



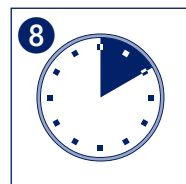
6  $\text{PO}_4\text{-2}$



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

540 nm

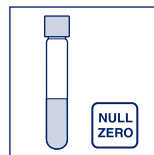
Method(e) / Método

5881

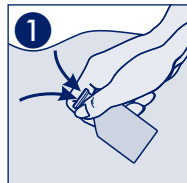
1–8 mg/L O<sub>2</sub>

### Test 5-88

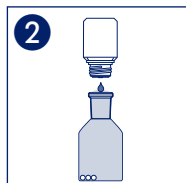
REF 931 288



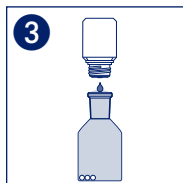
Probe / sample  
échantillon / muestra



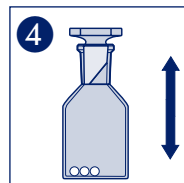
Probe  
Sample  
Echantillon  
Muestra



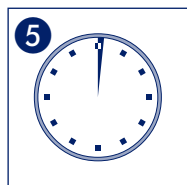
5 ♡ O<sub>2</sub>-1



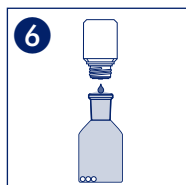
5 ♡ O<sub>2</sub>-2



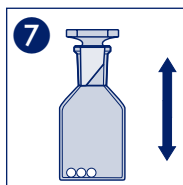
Schütteln  
Shake  
Agiter  
Agitar



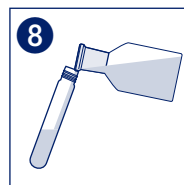
1'00 min



12 ♡ O<sub>2</sub>-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

# visocolor<sup>®</sup> ECO Sulfat

## Sulphate / Sulfate / Sulfato

### Test 5-92

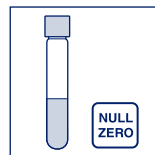
REF 931 292

436 nm

Method(e) / Método

5921

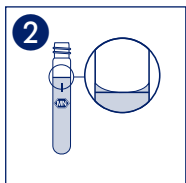
20–200 mg/L  $\text{SO}_4^{2-}$



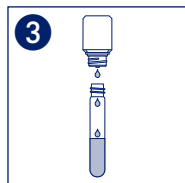
Probe / sample  
échantillon / muestra



Küvetten spülen  
Rinse test tubes  
Rincer les éprouvettes  
Lavar los tubos



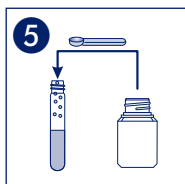
10 mL Probe  
Sample  
Echantillon  
Muestra



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



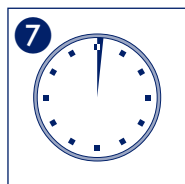
Schütteln  
Shake  
Agiter  
Agitar



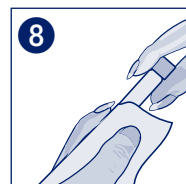
1  $\text{SO}_4\text{-2}$



Schütteln  
Shake  
Agiter  
Agitar



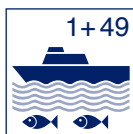
1'00 min



Säubern  
Clean  
Nettoyer  
Limpiar



Messung  
Measurement  
Mesure  
Medición



Meerwasser  
Sea water  
Eau de mer  
Agua de mar

# visocolor® ECO Sulfid

## Sulphide / Sulfure / Sulfuro

620 nm

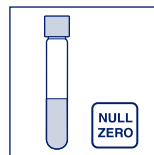
Method(e) / Método

5941

0.05–0.80 mg/L S<sup>2-</sup>

### Test 5-94

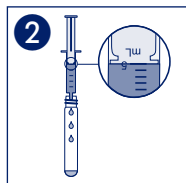
REF 931 294



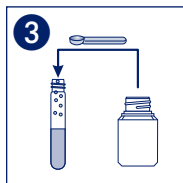
Probe / sample  
échantillon / muestra



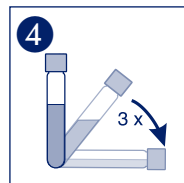
Küvetten spülen  
Rinse test tubes  
Rincer les éprouvettes  
Lavar los tubos



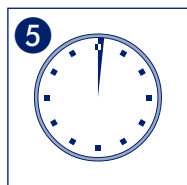
5 mL Probe  
Sample  
Echantillon  
Muestra



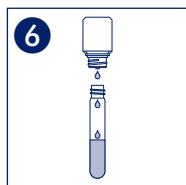
1 S-1



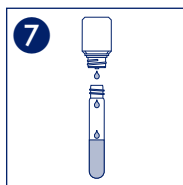
Umschwenken  
Shake gently  
Secouer légèrement  
Mezclar volteándolo



1'00 min



5 S-2



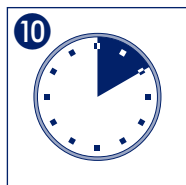
5 S-3



Schütteln  
Shake  
Agiter  
Agitar



Säubern  
Clean  
Nettoyer  
Limpiar



10'00 min



Messung  
Measurement  
Mesure  
Medición



Meerwasser  
Sea water  
Eau de mer  
Agua de mar

# visicolor® ECO Zink

## Zinc

620 nm

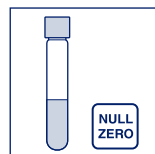
Method(e) / Método

5981

0.1–3.0 mg/L Zn<sup>2+</sup>

### Test 5-98

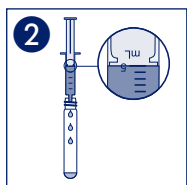
REF 931 298



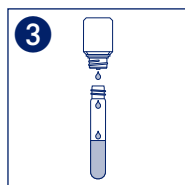
Probe / sample  
échantillon / muestra



Küvetten spülen  
Rinse test tubes  
Rincer les éprouvettes  
Lavar los tubos



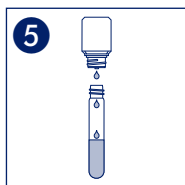
5 mL Probe  
Sample  
Echantillon  
Muestra



5 ♡ Zn-1



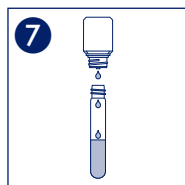
Schütteln  
Shake  
Agiter  
Agitar



5 ♡ Zn-2



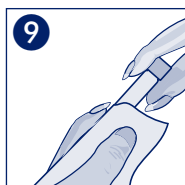
Schütteln  
Shake  
Agiter  
Agitar



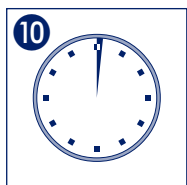
10 ♡ Zn-3



Schütteln  
Shake  
Agiter  
Agitar



Säubern  
Clean  
Nettoyer  
Limpiar



1'00 min



Messung  
Measurement  
Mesure  
Medición

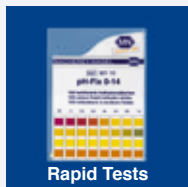


Meerwasser  
Sea water  
Eau de mer  
Agua de mar

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