# REEF ICP

**METHODOLOGY:** ICP-OES, photometric and electrochemical methods specific to seawater.

Recommended values are optimized for coral reef aquariums.

The quantity of Fauna Marin ELEMENTALS and TRACE products to be added to your tank is displayed for one-time correction of a deficiency. Click on the product name and you will be taken directly to the store.

**Sample ID:** **02206080**
**Analysis ID:** **217768**

| | |
|---|---|
| Sample Type: | Seawater |
| Volume in Liters: | 832 |
| Sampling Point: | The Falcon |
| Sampling Date: | 05-09-2025 |
| Sample Arrival: | 05-15-2025 |

To the dosing and action recommendations

## MACROELEMENTS, CALCIUM BALANCE ELEMENTS, AND HALOGENS in mg/Liter

| | | measured | Reference Range | Dosing recommendation in ml | Dosing recommendation spread over ... days | Product |
|---|---|---|---|---|---|---|
| **Sodium** | Na | **9860** | 9500 - 10700 - 11500 | | | |
| **Sulfur** | S | **790** | 850 - 900 - 950 | 1307 | 6 | ELEMENTALS S |
| **Sulfate** | $SO_4^{2-}$ | **2367** | 2550 - 2700 - 2850 | | | |
| **Potassium** | K | **390** | 380 - 395 - 420 | | | ELEMENTALS K |
| **Boron** | B | **5.74** | 3,8 - 4,5 - 5,5 | | | ELEMENTALS B |
| **Magnesium** | Mg | **1272** | 1200 - 1350 - 1450 | | | ELEMENTALS MG |
| **Calcium** | Ca | **421** | 400 - 425 - 440 | | | |
| **Strontium** | Sr | **7.57** | 6,5 - 8,0 - 9,0 | | | ELEMENTALS SR |
| **Bromine** (total bromine, ICP-OES) | Br | **82.4** | 55 - 67 - 75 | | | ELEMENTALS BR |
| **Iodine** (Total Iodine, ICP-OES) | I | **0.02** | 0,055 - 0,065 - 0,080 | 37 | 2 | TRACE I |

## MACRO NUTRIENTS in mg/Liter

| | | measured | Reference Range | Dosing recommendation in ml | Dosing recommendation spread over ... days | Product |
|---|---|---|---|---|---|---|
| **Phosphorus** (ICP-OES) | P | **0.017** | **< 0,06** | | | ELEMENTALS P |
| **Total Phosphate** (calculated) | $PO_4^{3-}{}_{tot.}$ | **0.052** | 0,02 - 0,18 | | | |
| **Silicon** | Si | **0.15** | 0,1 - 0,2 | | | |
| **Silicate** (calculated) | $SiO_2$ | **0.33** | 0,2 - 0,4 | | | |

## ORGANIC FACTORS

| | measured | Reference Range | | |
|---|---|---|---|---|
| **SAK254** ($m^{-1}$) | **n.m.** | 0,5 | - | 5,0 |

**Interested?** Then get this value as an upgrade for your next analysis and find out even more about your tank!

## Dynamic Elements in µg/Liter

| | | | | | | Dosing recommendation | | |
|---|---|---|---|---|---|---|---|---|
| | | measured | Reference Range | | | in ml | spread over ... days | Product |
| **Zinc** | Zn | **1.34** | 3 | - 5,5 - | 8 | 3,5 | 2 | TRACE ZN |
| **Vanadium** | V | **n.d.** | 2 | - 6 - | 10 | 10 | 4 | TRACE V |
| **Copper** | Cu | **0.73** | 2 | - 4 - | 6 | 27 | 2 | TRACE CU |
| **Nickel** | Ni | **0.85** | 3 | - 4,5 - | 6 | 7,6 | 1 | TRACE NI |
| **Molybdenum** | Mo | **36.3** | 10 | - 15 - | 20 | | | TRACE MO |

## PHYSIOLOGICALLY RELEVANT TRACE ELEMENTS in µg/Liter

| | | | | | | Dosing recommendation | | |
|---|---|---|---|---|---|---|---|---|
| | | measured | Reference Range | | | in ml | spread over ... days | Product |
| | | | | | Max. | | | |
| **Barium** | Ba | **19.7** | 5 | - | 50 | | | TRACE BA |
| **Cobalt** | Co | **n.d.** | n.d. | - | 1,9 | 2,1 | 1 | TRACE CO |
| **Chromium** | Cr | **n.d.** | n.d. | - | 2,3 | 20 | 3 | TRACE CR |
| **Iron** | Fe | **4.54** | n.d. | - | 2,5 | | | TRACE FE |
| **Lithium** | Li | **553** | 180 | - | 350 | | | TRACE LI |
| **Manganese** | Mn | **0.19** | n.d. | - | 0,25 | | | TRACE MN |
| **Selenium** | Se | **n.d.** | n.d. | - | 2 | 53 | 4 | TRACE SE |

## OTHER TRACE ELEMENTS AND POTENTIAL POLLUTANTS in µg/Liter

| | | measured | Reference Range | | |
|---|---|---|---|---|---|
| **Aluminum** | Al | **25.1** | 5 | - | 30 |
| **Antimony** | Sb | **n.d.** | n.d. | - | 10 (max.) |
| **Arsenic** | As | **n.d.** | | **n.d.** | |
| **Beryllium** | Be | **n.d.** | | **n.d.** | |
| **Lead** | Pb | **n.d.** | | **n.d.** | |
| **Cadmium** | Cd | **n.d.** | | **n.d.** | |
| **Lanthanum** | La | **n.d.** | 2 | - | 10 |
| **Mercury** | Hg | **n.d.** | | **n.d.** | |
| **Silver** | Ag | **n.d.** | n.d. | - | 10 (max.) |
| **Titanium** | Ti | **n.d.** | n.d. | - | 3,5 |
| **Tungsten** | W | **n.d.** | n.d. | - | 30 (max.) |
| **Tin** | Sn | **n.d.** | n.d. | - | 10 (max.) |
| **Zirconium** | Zr | **n.d.** | n.d. | - | 2,2 |

**Abbreviations:** ICP-OES (inductively coupled plasma with optical emission spectrometry), SAK254 (spectral absorption coefficient at 254 nm), n.m. (not measured), n.d. (not detectable).