

# REEF ICP TEST



Sample ID: 020089J

Sample type: Seawater

Volume aquarium in Litre: 500

Sample name: Aquarium- old tank

Sampling date: 03-21-2022

Date of receipt: 03-24-2022

Method: ICP-OES (inductively coupled plasma with optical emission spectrometry) specifically for seawater.

Recommended values are optimized for coral reef aquariums.

To resolve a deficiency, the quantity of Fauna Marin Elementals to be dosed is displayed adapted to your aquarium. A click on the product name takes you directly to the shop.

Further help can be found here:

[Fauna Marin Forum](#)

[Reef 2 Reef](#)

[Fauna Marin Reefing Group on Facebook](#)

## Major elements and halogens in mg/litre (1 mg = 0,001 g)

### Recommended dosage Elementals

|                       |    | measured | reference range |                 | in ml       | spread over ... days | Product            |
|-----------------------|----|----------|-----------------|-----------------|-------------|----------------------|--------------------|
| Sodium                | Na | 9750     | 9500            | - 10700 - 11500 |             |                      |                    |
| Sulphur               | S  | 827      | 850             | - 900 - 950     |             |                      |                    |
| Potassium             | K  | 418      | 380             | - 395 - 420     |             |                      | Elementals K       |
| Boron                 | B  | 3.56     | 3,8             | - 4,5 - 5,5     | 70          | 1                    | Elementals B       |
| Magnesium             | Mg | 1414     | 1200            | - 1350 - 1450   |             |                      | Elementals Mg      |
| Calcium               | Ca | 511      | 400             | - 425 - 440     | Waterchange |                      |                    |
| Strontium             | Sr | 10.2     | 6,5             | - 8 - 9         |             |                      | Elementals Sr      |
| Iodine (Total Iodine) | I  | 0.014    | 0,055           | - 0,065 - 0,08  | 26          | 2                    | Elementals Trace I |
| Bromine               | Br | 59.5     | 55              | - 65 - 75       |             |                      | Elementals Br      |

## Macronutrients

in mg/litre (1 mg = 0,001 g)

### Recommended dosage Elementals

|                              |                                    | measured | reference range |        | in ml       | spread over ... days | Product      |
|------------------------------|------------------------------------|----------|-----------------|--------|-------------|----------------------|--------------|
| Phosphorus (ICP-OES)         | P                                  | 0.068    | < 0,06          |        | Waterchange |                      | Elementals P |
| Total Phosphate (calculated) | PO <sub>4</sub> <sup>3-</sup> tot. | 0.21     | 0,02            | - 0,10 |             |                      |              |
| Silicon (ICP-OES)            | Si                                 | 0.15     | 0,1             | - 0,2  |             |                      |              |

## Physiologically relevant trace elements and color-relevant micronutrients in µg/litre (1 µg = 0,000001 g)

### Recommended dosage Elementals

|            |    | measured | reference range |        | in ml | spread over ... days | Product             |
|------------|----|----------|-----------------|--------|-------|----------------------|---------------------|
| Zinc       | Zn | 1.9      | 3               | - 8    | 1,8   | 2                    | Elementals Trace Zn |
| Vanadium   | V  | n.n.     | 2               | - 10   | 6     | 3                    | Elementals Trace V  |
| Copper     | Cu | n.n.     | 2               | - 6    | 20    | 2                    | Elementals Trace Cu |
| Nickel     | Ni | 2.67     | 3               | - 6    | 2,3   | 1                    | Elementals Trace Ni |
| Manganese  | Mn | 1.15     | 0,10            | - 0,25 |       |                      | Elementals Trace Mn |
| Molybdenum | Mo | n.n.     | 10              | - 20   | 12    | 3                    | Elementals Trace Mo |
| Iron       | Fe | 1.28     | 0,05            | - 2,5  |       |                      | Elementals Trace Fe |
| Chrome     | Cr | n.n.     | 0,05            | - 2,3  | 12    | 3                    | Elementals Trace Cr |
| Cobalt     | Co | n.n.     | 0,02            | - 1,9  | 1,2   | 1                    | Elementals Trace Co |

## Other trace elements and potentially harmful substances in µg/litre (1 µg = 0,000001 g)

### Recommended dosage Elementals

|           |    | measured | reference range |       | in ml | spread over ... days | Product             |
|-----------|----|----------|-----------------|-------|-------|----------------------|---------------------|
| Lithium   | Li | 176      | 180             | - 350 | 30    | 3                    | Elementals Trace Li |
| Barium    | Ba | 66       | 20              | - 50  |       |                      | Elementals Trace Ba |
| Aluminium | Al | 8        | 5               | - 30  |       |                      |                     |
| Antimony  | Sb | n.n.     | < 10            |       |       |                      |                     |
| Tin       | Sn | n.n.     | < 10            |       |       |                      |                     |
| Beryllium | Be | n.n.     | 0,1             | - 1,4 |       |                      |                     |
| Selenium  | Se | n.n.     | 0,9             | - 5,5 |       |                      |                     |
| Silver    | Ag | n.n.     | < 10            |       |       |                      |                     |
| Tungsten  | W  | n.n.     | < 30            |       |       |                      |                     |
| Lanthanum | La | n.n.     | 2               | - 10  |       |                      |                     |
| Titanium  | Ti | n.n.     | 0,5             | - 3,5 |       |                      |                     |
| Zirconium | Zr | n.n.     | 1,0             | - 2,2 |       |                      |                     |
| Arsenic   | As | n.n.     | < 1             |       |       |                      |                     |
| Cadmium   | Cd | n.n.     | < 1             |       |       |                      |                     |
| Mercury   | Hg | n.n.     | < 1             |       |       |                      |                     |
| Lead      | Pb | n.n.     | < 1             |       |       |                      |                     |

Measured values of type "> 24" indicate that the concentration is above the calibrated range and therefore cannot be definitely determined. In these cases the highest detectable value is indicated (e.g. 24 µg/l), the actual value may be higher. Abbreviations: n.g. (not measured), n.n. (not detectable).