

REEF ICP TEST



Sample ID: 01185294

Sample type: Seawater

Volume aquarium in Litre: 130

Sample name: Red Sea Max 170

Sampling date: 01-03-2024

Date of receipt: 01-05-2024

to the detailed online analysis:

<https://lab.faunamarin.de/en/home/analysis/106736>

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

Recommended values are optimized for coral reef aquariums.

For the one-time correction of 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 to the shop.

Further help can be found in your [Lab-Account](#) and here:

[Fauna Marin Knowledge Base](#)

[Reef 2 Reef](#)

[Fauna Marin Reefing Group on Facebook](#)

Major elements, lime 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	10428	9500	- 11500			
Sulphur	S	796	850	- 900 - 950			
Potassium	K	373	380	- 395 - 420	29	1	Elementals K
Boron	B	4.08	3,8	- 4,5 - 5,5			Elementals B
Magnesium	Mg	1258	1200	- 1350 - 1450			Elementals Mg
Calcium	Ca	434	400	- 425 - 440			
Strontium	Sr	6.88	6,5	- 8 - 9			Elementals Sr
Iodine (Total Iodine)	I	0.015	0,055	- 0,065 - 0,08	6,5	2	Elementals Trace I
Bromine	Br	66.8	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	0.026	< 0,06				Elementals P
Total Phosphate (calculated)	PO ₄ ³⁻ tot.	0.08	0,02	- 0,10			
Silicon	Si	0.38	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	2.66	3	- 8	0,37	1	Elementals Trace Zn
Vanadium	V	n.n.	2	- 10	1,6	3	Elementals Trace V
Copper	Cu	0.83	2	- 6	4,1	2	Elementals Trace Cu
Nickel	Ni	1.11	3	- 6	1,1	1	Elementals Trace Ni
Manganese	Mn	0.19	0,10	- 0,25			Elementals Trace Mn
Molybdenum	Mo	5	10	- 20	2,2	2	Elementals Trace Mo
Iron	Fe	n.n.	0,05	- 2,5	0,49	2	Elementals Trace Fe
Chrome	Cr	n.n.	0,05	- 2,3	3,1	3	Elementals Trace Cr
Cobalt	Co	n.n.	0,02	- 1,9	0,32	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	226	180	- 350			Elementals Trace Li
Barium	Ba	23.4	5	- 50			Elementals Trace Ba
Aluminium	Al	1.1	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	29.2	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).