

REEF ICP TEST



Sample number: 181
Client name: Thomas Schjoetz
Sample type: Seawater
Volume aquarium in Liter: 345
Sample name: Red Sea Reefer
Sampling date: 19.01.20
Date of receipt: 22.01.20

Method: SRL specifically for seawater using ICP-OES (inductively coupled plasma with optical emission spectrometry).
 Recommended values are optimized for coral reef aquariums.
 Values in **orange** require action.
 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](#)

E-Mail: thooms76@gmail.com

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

Recommended dosage Elementals

		measured	reference range	in ml	spread over ... days	Product
Sodium	Na	10716	9500 - 10700 - 11500			
Sulphur	S	804	850 - 900 - 950			
Potassium	K	374	380 - 395 - 420	72	1	Elementals K
Boron	B	3,45	3,8 - 4,5 - 5,5	54	1	Elementals B
Magnesium	Mg	1496	1200 - 1350 - 1450			Elementals Mg
Calcium	Ca	402	400 - 425 - 440			
Strontium	Sr	4,32	6,5 - 8 - 9	63	2	Elementals Sr
Iodine (Total Iodine)	I	0,052	0,055 - 0,065 - 0,08	4	1	Elementals Trace I
Bromine	Br	55,60	55 - 67 - 75			Elementals Br

Macronutrients

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

		measured	reference range	
Phosphorus (ICP-OES)	P	0,006	< 0,06	
Total Phosphate (calculated)	PO ₄ ³⁻ tot.	0,02	0,02 - 0,10	
Silicon (ICP-OES)	Si	0,08	0,1 - 0,2	

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

Recommended dosage Elementals

		measured	reference range	in ml	spread over ... days	Product
Zinc	Zn	n.n.	3 - 8	1,9	2	Elementals Trace Zn
Vanadium	V	1,67	2 - 10	3,0	3	Elementals Trace V
Copper	Cu	n.n.	2 - 6			
Nickel	Ni	n.n.	3 - 6	3,9	2	Elementals Trace Ni
Manganese	Mn	n.n.	0,10 - 0,25	0,2	1	Elementals Trace Mn
Molybdenum	Mo	1,76	10 - 20	7,6	3	Elementals Trace Mo
Iron	Fe	n.n.	0,05 - 2,5	1,3	2	Elementals Trace Fe
Chrom	Cr	n.n.	0,05 - 2,3	8	3	Elementals Trace Cr
Cobalt	Co	n.n.	0,02 - 1,9	0,9	1	Elementals Trace Co

Other trace elements und potentially harmful substances in µg/liter (1 µg = 0,000001 g)

Recommended dosage Elementals

		measured	reference range	in ml	spread over ... days	Product
Lithium	Li	228	180 - 350			Elementals Trace Li
Barium	Ba	7	20 - 50	191	6	Elementals Trace Ba
Aluminium	Al	35,87	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			
Scandium	Sc	n.n.	0,1 - 1,0			
Zirconium	Zr	n.n.	1,0 - 2,2			
Arsenic	As	n.n.	< 1			
Cadmium	Cd	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).