

REEF ICP TEST



Sample number: 108
Client name: Gert Jan Bruin
Sample type: Seawater
Volume aquarium in Liter: 350
Sample name: Xenia 100
Sampling date: 10.02.20
Date of receipt: 13.02.20

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](#)

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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	10647	9500	-	10700 - 11500			
Sulphur	S	960	850	-	900 - 950			
Potassium	K	429	380	-	395 - 420			Elementals K
Boron	B	4,43	3,8	-	4,5 - 5,5			Elementals B
Magnesium	Mg	1436	1200	-	1350 - 1450			Elementals Mg
Calcium	Ca	479	400	-	425 - 440	water change		
Strontium	Sr	6,40	6,5	-	8 - 9	28	1	Elementals Sr
Iodine (Total Iodine)	I	0,04	0,055	-	0,065 - 0,08	8,8	1	Elementals Trace I
Bromine	Br	67,90	55	-	67 - 75			Elementals Br

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

Recommended dosage Elementals

		measured	reference range			in ml	spread over ... days	Product
Phosphorus (ICP-OES)	P	n.n.	< 0,06					Elementals P
Total Phosphate (calculated)	PO ₄ ³⁻ tot.	n.n.	0,02	-	0,10			
Silicon (ICP-OES)	Si	0,26	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	2,96	3	-	8	0,9	1	Elementals Trace Zn
Vanadium	V	1,31	2	-	10	3,3	3	Elementals Trace V
Copper	Cu	2,94	2	-	6			Elementals Trace Cu
Nickel	Ni	n.n.	3	-	6	4	2	Elementals Trace Ni
Manganese	Mn	n.n.	0,10	-	0,25	0,2	1	Elementals Trace Mn
Molybdenum	Mo	5,7	10	-	20	5,4	2	Elementals Trace Mo
Iron	Fe	n.n.	0,05	-	2,5	1,3	2	Elementals Trace Fe
Chrome	Cr	n.n.	0,05	-	2,3	8,3	3	Elementals Trace Cr
Cobalt	Co	0,44	0,02	-	1,9			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	168	180	-	350	23	4	Elementals Trace Li
Barium	Ba	153	20	-	50			Elementals Trace Ba
Aluminium	Al	19,18	5	-	30			
Antimony	Sb	n.n.	< 10					
Tin	Sn	55,4	< 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					
Mercury	Hg	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).