

REEF ICP TEST



Sample number: 220
Client name: Adam Colley
Sample type: Seawater
Volume aquarium in Liter: 440
Sample name: 440LTR Reef
Sampling date: 06.03.20
Date of receipt: 10.03.20

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: adamcolley130587@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	10533	9500 - 10700 - 11500			
Sulphur	S	933	850 - 900 - 950			
Potassium	K	358	380 - 395 - 420	163	1	Elementals K
Boron	B	3,1	3,8 - 4,5 - 5,5	92	1	Elementals B
Magnesium	Mg	1309	1200 - 1350 - 1450			Elementals Mg
Calcium	Ca	424	400 - 425 - 440			
Strontium	Sr	9,1	6,5 - 8 - 9			Elementals Sr
Iodine (Total Iodine)	I	0,052	0,055 - 0,065 - 0,08	6	1	Elementals Trace I
Bromine	Br	52,80	55 - 67 - 75	62	2	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	0,008	< 0,06			Elementals P
Total Phosphate (calculated)	PO ₄ ³⁻ tot.	1,81	0,02 - 0,10			
Silicon (ICP-OES)	Si	0,13	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	25,85	3 - 8			Elementals Trace Zn
Vanadium	V	2,03	2 - 10			Elementals Trace V
Copper	Cu	2,96	2 - 6			Elementals Trace Cu
Nickel	Ni	1,59	3 - 6	3	1	Elementals Trace Ni
Manganese	Mn	n.n.	0,10 - 0,25	0,2	1	Elementals Trace Mn
Molybdenum	Mo	10,49	10 - 20			Elementals Trace Mo
Iron	Fe	n.n.	0,05 - 2,5	2	2	Elementals Trace Fe
Chrome	Cr	n.n.	0,05 - 2,3	10	3	Elementals Trace Cr
Cobalt	Co	0,38	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	183	180 - 350			Elementals Trace Li
Barium	Ba	70	20 - 50			Elementals Trace Ba
Aluminium	Al	64,9	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			
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).