REEF ICP TEST

FAUNA MARIN ICP LAB

Sample ID:	**040305C**
Sample type:	Seawater
Volume aquarium in Litre:	500
Sample name:	Aquarium 1
Sampling date:	01-14-2023
Date of receipt:	01-20-2023

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, 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	**12937**	9500	- 10700 -	11500			
Sulphur	S	**1024**	850	- 900 -	950			
Potassium	K	**530**	380	- 395 -	420	Waterchange		Elementals K
Boron	B	**6.58**	3,8	- 4,5 -	5,5			Elementals B
Magnesium	Mg	**1612**	1200	- 1350 -	1450	Waterchange		Elementals Mg
Calcium	Ca	**564**	400	- 425 -	440	Waterchange		
Strontium	Sr	**9.87**	6,5	- 8 -	9			Elementals Sr
Iodine (Total Iodine)	I	**0.14**	0,055	- 0,065 -	0,08			Elementals Trace I
Bromine	Br	**83.8**	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	**0.004**	< 0,06			14	2	Elementals P
Total Phosphate (calculated)	PO_4^{3-} tot.	**0.01**	0,02	-	0,10			
Silicon	Si	**0.09**	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	**14.6**	3	-	8			Elementals Trace Zn
Vanadium	V	**1.68**	2	-	10	4,3	3	Elementals Trace V
Copper	Cu	**1.92**	2	-	6	10	2	Elementals Trace Cu
Nickel	Ni	**1.29**	3	-	6	4	1	Elementals Trace Ni
Manganese	Mn	**0.47**	0,10	-	0,25			Elementals Trace Mn
Molybdenum	Mo	**6.4**	10	-	20	7,2	2	Elementals Trace Mo
Iron	Fe	**6.73**	0,05	-	2,5			Elementals Trace Fe
Chrome	Cr	**3.27**	0,05	-	2,3			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	**267**	180	-	350			Elementals Trace Li
Barium	Ba	**156**	5	-	50	Waterchange		Elementals Trace Ba
Aluminium	Al	**3.5**	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).