REEF ICP TEST

FAUNA MARIN ICPLAB

Sample ID:	**02073491**
Sample type:	Seawater
Volume aquarium in Litre:	0
Sample name:	Aquarium 1
Sampling date:	07-29-2024
Date of receipt:	08-05-2024

to the detailed online analysis:
https://lab.faunamarin.de/en/home/analysis/153112

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	**10337**	9500	- 10700 -	11500			
Sulphur	S	**773**	850	- 900 -	950			Elementals Trace S
Potassium	K	**367**	380	- 395 -	420			Elementals K
Boron	B	**3.52**	3,8	- 4,5 -	5,5			Elementals B
Magnesium	Mg	**1147**	1200	- 1350 -	1450			Elementals Mg
Calcium	Ca	**342**	400	- 425 -	440			
Strontium	Sr	**8.09**	6,5	- 8 -	9			Elementals Sr
Iodine (Total Iodine)	I	**0.023**	0,055	- 0,065 -	0,08			Elementals Trace I
Bromine	Br	**64**	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	**0.033**	< 0,06					Elementals P
Total Phosphate (calculated)	$PO_4^{3-}{}_{tot.}$	**0.101**	0,02	-	0,10			
Silicon	Si	**0.23**	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	**0.28**	3	-	8			Elementals Trace Zn
Vanadium	V	**n.n.**	2	-	10			Elementals Trace V
Copper	Cu	**1.19**	2	-	6			Elementals Trace Cu
Nickel	Ni	**0.97**	3	-	6			Elementals Trace Ni
Manganese	Mn	**n.n.**	0,10	-	0,25			Elementals Trace Mn
Molybdenum	Mo	**10.8**	10	-	20			Elementals Trace Mo
Iron	Fe	**n.n.**	0,05	-	2,5			Elementals Trace Fe
Chrome	Cr	**n.n.**	0,05	-	2,3			Elementals Trace Cr
Cobalt	Co	**n.n.**	0,02	-	1,9			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	**174**	180	-	350			Elementals Trace Li
Barium	Ba	**38.1**	5	-	50			Elementals Trace Ba
Aluminium	Al	**32**	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			Elementals Trace Se
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).