REEF ICP TEST

FAUNA MARIN ICP LAB

Sample number:	**0152**
Client name:	**Ray Peters**
Sample type:	Seawater
Volume aquarium in Liter:	441
Sample name:	75 gal Test 2
Sampling date:	07.07.20
Date of receipt:	20.07.20

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

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	**9936**	9500	- 10700 -	11500			
Sulphur	S	**963**	850	- 900 -	950			
Potassium	K	**397**	380	- 395 -	420			Elementals K
Boron	B	**4,31**	3,8	- 4,5 -	5,5			Elementals B
Magnesium	Mg	**1342**	1200	- 1350 -	1450			Elementals Mg
Calcium	Ca	**421**	400	- 425 -	440			
Strontium	Sr	**8,52**	6,5	- 8 -	9			Elementals Sr
Iodine (Total Iodine)	I	**0,07**	0,055	- 0,065 -	0,08			Elementals Trace I
Bromine	Br	**61,80**	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	**0,006**	< 0,06			10	2	Elementals P
Total Phosphate (calculated)	$PO_{4\ tot.}^{3-}$	**0,02**	0,02	-	0,10			
Silicon (ICP-OES)	Si	**0,18**	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	**23,1**	3	-	8			Elementals Trace Zn
Vanadium	V	**2,77**	2	-	10			Elementals Trace V
Copper	Cu	**1,08**	2	-	6	13	2	Elementals Trace Cu
Nickel	Ni	**13,37**	3	-	6			Elementals Trace Ni
Manganese	Mn	**n.n.**	0,10	-	0,25	0,2	1	Elementals Trace Mn
Molybdenum	Mo	**8,93**	10	-	20	4,5	2	Elementals Trace Mo
Iron	Fe	**4,37**	0,05	-	2,5			Elementals Trace Fe
Chrome	Cr	**4,86**	0,05	-	2,3			Elementals Trace Cr
Cobalt	Co	**n.n.**	0,02	-	1,9	1	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	**152**	180	-	350	33	4	Elementals Trace Li
Barium	Ba	**40**	20	-	50			Elementals Trace Ba
Aluminium	Al	**13,01**	5	-	30			
Antimony	Sb	**n.n.**	< 10					
Tin	Sn	**n.n.**	< 10					
Beryllium	Be	**n.n.**	0,1	-	1,4			
Selenium	Se	**9,58**	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).