REEF ICP

METHODOLOGY: ICP-OES, photometric and electrochemical methods specific to seawater.

Recommended values are optimized for coral reef aquariums.

The quantity of Fauna Marin ELEMENTALS and TRACE products to be added to your tank is displayed for one-time correction of a deficiency. Click on the product name and you will be taken directly to the store.

Sample ID: **01750157**
Analysis ID: **186790**

Sample Type:	Seawater
Volume in Liters:	300
Sampling Point:	Petit Reef
Sampling Date:	01-06-2025
Sample Arrival:	01-10-2025

To the dosing and action recommendations

MACROELEMENTS, CALCIUM BALANCE ELEMENTS, AND HALOGENS in mg/Liter

		measured	Reference Range	Dosing recommendation in ml	Dosing recommendation spread over ... days	Product
Sodium	Na	**10668**	9500 - **10700** - 11500			
Sulfur	S	**838**	850 - **900** - 950	266	4	ELEMENTALS S
Sulfate	SO_4^{2-}	**2511**	2550 - **2700** - 2850			
Potassium	K	**386**	380 - **395** - 420			ELEMENTALS K
Boron	B	**4.8**	3,8 - **4,5** - 5,5			ELEMENTALS B
Magnesium	Mg	**1324**	1200 - **1350** - 1450			ELEMENTALS MG
Calcium	Ca	**421**	400 - **425** - 440			
Strontium	Sr	**12.3**	6,5 - **8,0** - 9,0			ELEMENTALS SR
Bromine (total bromine, ICP-OES)	Br	**60.8**	55 - **67** - 75			ELEMENTALS BR
Iodine (Total Iodine, ICP-OES)	I	**0.039**	0,055 - **0,065** - 0,080	7,8	1	TRACE I

MACRO NUTRIENTS in mg/Liter

		measured	Reference Range	Dosing recommendation in ml	Dosing recommendation spread over ... days	Product
Phosphorus (ICP-OES)	P	**0.045**	**< 0,06**			ELEMENTALS P
Total Phosphate (calculated)	$PO_4^{3-}{}_{tot.}$	**0.138**	0,02 - 0,18			
Silicon	Si	**0.12**	0,1 - 0,2			
Silicate (calculated)	SiO_2	**0.26**	0,2 - 0,4			

ORGANIC FACTORS

	measured	Reference Range		
SAK254 (m^{-1})	**n.m.**	0,5	-	5,0

Interested? Then get this value as an upgrade for your next analysis and find out even more about your tank!

Dynamic Elements in µg/Liter

		measured	Reference Range			Dosing recommendation in ml	Dosing recommendation spread over ... days	Product
Zinc	Zn	**n.d.**	3	- 5,5 -	8	1,6	2	TRACE ZN
Vanadium	V	**n.d.**	2	- 6 -	10	3,6	3	TRACE V
Copper	Cu	**n.d.**	2	- 4 -	6	12	2	TRACE CU
Nickel	Ni	**n.d.**	3	- 4,5 -	6	3,4	2	TRACE NI
Molybdenum	Mo	**6.1**	10	- 15 -	20	4,5	2	TRACE MO

PHYSIOLOGICALLY RELEVANT TRACE ELEMENTS in µg/Liter

		measured	Reference Range			Dosing recommendation in ml	Dosing recommendation spread over ... days	Product
					Max.			
Barium	Ba	**1.3**	5	-	50	52	2	TRACE BA
Cobalt	Co	**n.d.**	n.d.	-	1,9	0,75	1	TRACE CO
Chromium	Cr	**n.d.**	n.d.	-	2,3	7,1	3	TRACE CR
Iron	Fe	**n.d.**	n.d.	-	2,5	1,1	2	TRACE FE
Lithium	Li	**235**	180	-	350			TRACE LI
Manganese	Mn	**0.52**	n.d.	-	0,25			TRACE MN
Selenium	Se	**n.d.**	n.d.	-	2	19	4	TRACE SE

OTHER TRACE ELEMENTS AND POTENTIAL POLLUTANTS in µg/Liter

		measured	Reference Range		
Aluminum	Al	**21.7**	5	-	30
Antimony	Sb	**n.d.**	n.d.	-	10 (max.)
Arsenic	As	**n.d.**		**n.d.**	
Beryllium	Be	**n.d.**		**n.d.**	
Lead	Pb	**n.d.**		**n.d.**	
Cadmium	Cd	**n.d.**		**n.d.**	
Lanthanum	La	**n.d.**	2	-	10
Mercury	Hg	**n.d.**		**n.d.**	
Silver	Ag	**n.d.**	n.d.	-	10 (max.)
Titanium	Ti	**n.d.**	n.d.	-	3,5
Tungsten	W	**n.d.**	n.d.	-	30 (max.)
Tin	Sn	**n.d.**	n.d.	-	10 (max.)
Zirconium	Zr	**n.d.**	n.d.	-	2,2

Abbreviations: ICP-OES (inductively coupled plasma with optical emission spectrometry), SAK254 (spectral absorption coefficient at 254 nm), n.m. (not measured), n.d. (not detectable).