REEF ICP TEST

FAUNA MARIN ICP LAB

Sample Number:	**361**
Client Name:	**Hans Streek**
Sample type:	Seawater
Volume Aquarium in Liter:	550
Sample Name:	Schuran 550
Sampling Date:	08.10.19
Date of receipt:	14.10.19
E-Mail:	hans@drakfisken.se

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

Reef 2 Reef

Fauna Marin Reefing Group in 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	**10216**	9500	- 10700 -	11500			
Sulphur	S	**749**	850	- 900 -	950			
Potassium	K	**361**	380	- 395 -	420	187	1	Elementals K
Boron	B	**3,87**	3,8	- 4,5 -	5,5			Elementals B
Magnesium	Mg	**1333**	1200	- 1350 -	1450			Elementals Mg
Calcium	Ca	**435**	400	- 425 -	440			
Strontium	Sr	**6,77**	6,5	- 8 -	9			Elementals Sr
Iodine (Total Iodine)	I	**0,037**	0,055	- 0,065 -	0,08	15,4	1	Elementals Trace I
Bromine	Br	**60,90**	55	- 67 -	75			Elementals Br

Macronutrients in mg/liter (1 mg = 0,001 g)					
		measured	**reference range**		
Phosphorus (ICP-OES)	P	**0,031**	< 0,06		
Total Phosphate (calculated)	$PO_4^{3-}{}_{tot.}$	**0,10**	0,02	-	0,10
Silicon (ICP-OES)	Si	**0,23**	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	**n.n.**	3	-	8	3,0	2	Elementals Trace Zn
Vanadium	V	**4,43**	2	-	10			Elementals Trace V
Copper	Cu	**1,54**	2	-	6			
Nickel	Ni	**n.n.**	3	-	6	6,2	2	Elementals Trace Ni
Manganese	Mn	**0,12**	0,10	-	0,25			Elementals Trace Mn
Molybdenum	Mo	**5,82**	10	-	20	8,4	2	Elementals Trace Mo
Iron	Fe	**n.n.**	0,05	-	2,5	2,1	2	Elementals Trace Fe
Chrome	Cr	**n.n.**	0,05	-	2,3	13,0	3	Elementals Trace Cr
Cobalt	Co	**n.n.**	0,02	-	1,9	1,4	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	**131**	180	-	350	49,1	5	Elementals Trace Li
Barium	Ba	**231**	20	-	50			Elementals Trace Ba
Aluminium	Al	**73,6**	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	**1,72**		< 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				

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).