



Analysis Report

Date of Analysis: 30.10.2025

Analysis No: MSR227187

Date of Sampling: 23.10.2025 – 10:45

Customer: DJKMS

Customer ID: 7128

Tank: 2195 L reef tank

Main Parameters

Parameter	Measured Value	Ideal Value	Rating
Salinity	35.9 psu	35 psu	✓
Alkalinity (KH)	9.35 dKH	7.5 dKH	↗
SAC254	6.65 m-1	2-8 m-1	✓

Main Elements

Parameter	Measured Value	Ideal Value	Rating
Calcium	444 mg/l	451 mg/l	✓
Boron	7.1 mg/l	4.6 mg/l	↗
Bromide	91 mg/l	69 mg/l	✓
Chloride	2016 mg/l	19899 mg/l	✓
Potassium	434 mg/l	410 mg/l	✓
Magnesium	1388 mg/l	1333 mg/l	✓
Sodium	11286 mg/l	11078 mg/l	✓
Strontium	9.4 mg/l	8.2 mg/l	✓
Sulfate	2728 mg/l	2769 mg/l	✓

Trace Elements

Parameter	Measured Value	Ideal Value	Rating
Barium	2.89 µg/l	10-100 µg/l	↘
Chromium	0.32 µg/l	0,2-0,5 µg/l	✓
Cobalt	0.21 µg/l	0,05-0,2 µg/l	✓
Iron	0.9 µg/l	0,1-3 µg/l	✓
Fluoride	1.74 mg/l	1.3 mg/l	↗
Iodine	78.3 µg/l	50-70 µg/l	✓
Copper	0.6 µg/l	0,2-2 µg/l	✓
Lithium	514 µg/l	50-150 µg/l	↑
Manganese	0.42 µg/l	0,2-1 µg/l	✓
Molybdenum	25.7 µg/l	10-15 µg/l	✓
Nickel	10.5 µg/l	2-5 µg/l	↑
Rubidium	328.4 µg/l	90-150 µg/l	↗
Selenium	0.114 µg/l	0,2-0,5 µg/l	↘
Vanadium	1.28 µg/l	2-3 µg/l	↘

Zinc	1.63	µg/l	1–3 µg/l	✓
Tin	0.24	µg/l	0,05–1 µg/l	✓
Caesium	1.17	µg/l	0,3–3 µg/l	✓

Pollutants

Parameter	Measured Value	Ideal Value	Rating
Aluminium	7.0 µg/l	< 40 µg/l	✓
Bismuth	n.n.	< 1 µg/l	✓
Lead	n.n.	< 3 µg/l	✓
Mercury	n.n.	< 0,5 µg/l	✓
Antimony	0.12 µg/l	< 3 µg/l	✓
Titanium	n.n.	< 1 µg/l	✓
Cadmium	0.016 µg/l	< 0,5 µg/l	✓
Uranium	0.528 µg/l	< 3 µg/l	✓
Beryllium	n.n.	< 0,2 µg/l	✓
Arsenic	1.373 µg/l	< 3 µg/l	✓
Lanthanum	0.035 µg/l	< 3 µg/l	✓
Thallium	n.n.	< 0,5 µg/l	✓
Gallium	n.n.	< 2 µg/l	✓
Tellurium	n.n.	< 2 µg/l	✓
Thorium	n.n.	< 0,3 µg/l	✓
Cerium	n.n.	< 0,5 µg/l	✓
Ruthenium	n.n.	< 0,1 µg/l	✓
Neodymium	n.n.	< 0,1 µg/l	✓
Tungsten	n.n.	< 2 µg/l	✓

Nutrients

Parameter	Measured Value	Ideal Value	Rating
Phosphate (photometric)	0.152 mg/l	0,03–0,1 mg/l	↗
Nitrate	3.57 mg/l	2–15 mg/l	✓
Nitrite	0.294 mg/l	< 0,3 mg/l	✓
Silicon	202 µg/l	50–250 µg/l	✓

Osmose

Parameter	Measured Value	Ideal Value	Rating
Copper (RO)	n.n.	n.n. µg/l	✓
Zinc (RO)	4.3 µg/l	n.n. µg/l	↗
Silicon (RO)	116 µg/l	n.n. µg/l	↗
Beryllium (RO)	n.n.	n.n. µg/l	✓
Cobalt (RO)	n.n.	n.n. µg/l	✓
Chromium (RO)	n.n.	n.n. µg/l	✓
Iron (RO)	n.n.	n.n. µg/l	✓
Lithium (RO)	n.n.	n.n. µg/l	✓
Manganese (RO)	n.n.	n.n. µg/l	✓

Molybdenum (RO)	n.n.	n.n. µg/l	✓
Nickel (RO)	n.n.	n.n. µg/l	✓
Phosphorus (RO)	n.n.	n.n. µg/l	✓
Lead (RO)	n.n.	n.n. µg/l	✓
Antimony (RO)	n.n.	n.n. µg/l	✓
Tin (RO)	n.n.	n.n. µg/l	✓
Titanium (RO)	n.n.	n.n. µg/l	✓
Vanadium (RO)	n.n.	n.n. µg/l	✓



No action required

n.n Not found



Need for action

n.b Not measured



Urgent need for action

Interpretation

Hello!

Please enter the above results into the Reef Moonshiner's ICP Assessment tool for a detailed assessment and dosing instructions, which can be found here under this weblink:

<https://www.reefmoonshiners.com/handbook-tools>

All the best,

Christoph