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Analysis Report

Date of Analysis:	21.08.2025	**Customer:**	James McKinley
Analysis No:	OMR250024	**Customer ID:**	3059
Date of Sampling:	11.08.2025 – 12:00	**Tank:**	567.0 L SPS

Targeted Analysis

Underlined parameters contain links for further information about the substance

Vitamines

Parameter	Measured Value	Ideal Value	Rating
Riboflavin	0.242 µg/L	n.n.	✓
Cyancobalamine	n.n.	n.n.	✓
Pyridoxine	n.n.	n.n.	✓
Nicotinicacid	n.n.	n.n.	✓

Amino Acids

Parameter	Measured Value	Ideal Value	Rating
Alanine	0.038 µg/L	0.45 µg/L	↘
Arginine	0.003 µg/L	0.70 µg/L	↓
Glycine	0.149 µg/L	1 µg/L	↘
Glutamine	0.391 µg/L	0.5 µg/L	✓
Asparagine	0.02 µg/L	0.5 µg/L	↘
Aspartic Acid	3.34 µg/L	1.06 µg/L	↗
Glutamic acid	1.34 µg/L	0.74 µg/L	✓
Lysine	0.003 µg/L	1.17 µg/L	↓
Methionine	0.005 µg/L	0.75 µg/L	↓
Ornithine	0.005 µg/L	0.5 µg/L	↓
Phenylalanine	0.017 µg/L	0.25 µg/L	↘
Proline	0.009 µg/L	0.23 µg/L	↓
Serine	0.071 µg/L	1.05 µg/L	↘
Threonine	0.026 µg/L	0.54 µg/L	↘
Tryptophane	0.008 µg/L	0.20 µg/L	↓
Tyrosine	0.045 µg/L	0.36 µg/L	↘
Valine	n.n.	0.12 µg/L	↓
Leucine + Isoleucine	0.02 µg/L	0.2 µg/L	↘
Taurine	0.144 µg/L	0.2 µg/L	✓

Herbicides/Pesticides

Parameter	Measured Value	Ideal Value	Rating
Atrazine	n.n.	n.n.	✓

Atrazine – desethyl	n.n.	n.n.	✓
Atrazine – desisopropyl	n.n.	n.n.	✓
Bromacil	n.n.	n.n.	✓
Carbetamide	n.n.	n.n.	✓
Chloridazon	n.n.	n.n.	✓
Chlorotoluron	n.n.	n.n.	✓
Chloroxuron	n.n.	n.n.	✓
Dimefuron	n.n.	n.n.	✓
Diuron	n.n.	n.n.	✓
Ethidimuron	n.n.	n.n.	✓
Ethofumesate	n.n.	n.n.	✓
Isoproturon	n.n.	n.n.	✓
Linuron	n.n.	n.n.	✓
Metamitron	n.n.	n.n.	✓
Metazachlor	n.n.	n.n.	✓
Methabenzthiazuron	n.n.	n.n.	✓
Metobromuron	n.n.	n.n.	✓
Metolachlor	n.n.	n.n.	✓
Metoxuron	n.n.	n.n.	✓
Monolinuron	n.n.	n.n.	✓
Prometryn	n.n.	n.n.	✓
Simazine	n.n.	n.n.	✓
Terbuthylazine	n.n.	n.n.	✓
Terbuthylazine – desethyl	n.n.	n.n.	✓
Terbutryne	n.n.	n.n.	✓

Marine Toxins

Parameter	Measured Value	Ideal Value	Rating
Palytoxin	n.n.	n.n.	✓

Pesticides

Parameter	Measured Value	Ideal Value	Rating
Abamectin	n.n.	n.n.	✓
(E) – Fenpyroximate	n.n.	n.n.	✓
Daminozid	n.n.	n.n.	✓
Etoxazole	n.n.	n.n.	✓
Ethoprophos	n.n.	n.n.	✓
Phosmet	n.n.	n.n.	✓
Dichlorvos	n.n.	n.n.	✓
Carbaryl	n.n.	n.n.	✓
Diazinon	n.n.	n.n.	✓
Acephate	n.n.	n.n.	✓
Acetamiprid	n.n.	n.n.	✓
Spirotetramat	n.n.	n.n.	✓
Thiamethoxam	n.n.	n.n.	✓
Metalaxyl	n.n.	n.n.	✓

Hexythiazox	n.n.		n.n.	✓
Tebuconazole	n.n.		n.n.	✓
Aldicarb	n.n.		n.n.	✓
Azoxystrobin	n.n.		n.n.	✓
Bifenthrin	n.n.		n.n.	✓
Propoxur	n.n.		n.n.	✓
Oxamyl	n.n.		n.n.	✓
Chlorpyrifos	n.n.		n.n.	✓
Boscalid	n.n.		n.n.	✓
MGK - 264	n.n.		n.n.	✓
Carbofuran	n.n.		n.n.	✓
Etofenprox	n.n.		n.n.	✓
Malathion	n.n.		n.n.	✓
Methomyl	n.n.		n.n.	✓
Pyridaben	n.n.		n.n.	✓
Cyfluthrin	n.n.		n.n.	✓
Naled	n.n.		n.n.	✓
Spiromesifen	n.n.		n.n.	✓
Paclobutrazol	n.n.		n.n.	✓
Kresoxim - methyl	n.n.		n.n.	✓
Propiconazole	n.n.		n.n.	✓
Chlorantraniliprol	n.n.		n.n.	✓
Cypermethrin	n.n.		n.n.	✓
Fenoxycarb	n.n.		n.n.	✓
Fipronil	n.n.		n.n.	✓
Flonicamid	n.n.		n.n.	✓
Fludioxonil	n.n.		n.n.	✓
Imazalil	n.n.		n.n.	✓
Imidacloprid	0.176	µg/l	n.n.	✓
Methiocarb	n.n.		n.n.	✓
Myclobutanil	n.n.		n.n.	✓
Spinosyn A	n.n.		n.n.	✓
Spinosyn D	n.n.		n.n.	✓
Thiacloprid	n.n.		n.n.	✓
Trifloxystrobin	n.n.		n.n.	✓

Antibiotics

Parameter	Measured Value	Ideal Value	Rating
Ciprofloxacin HCl	n.n.	n.n.	✓
Metronidazole	n.n.	n.n.	✓

Pharmaceutical Residues

Parameter	Measured Value	Ideal Value	Rating
Chloroquin	n.n.	n.n.	✓
Citalopram HBr	n.n.	n.n.	✓
Diclofenac	n.n.	n.n.	✓

Fenbendazole	n.n.	n.n.	✓
Fluconazole	n.n.	n.n.	✓
Ibuprofen	n.n.	n.n.	✓
Praziquantel	n.n.	n.n.	✓

Plasticisers/Plastic additives

Parameter	Measured Value	Ideal Value	Rating
Benzylbutylphthalate	0.479 µg/L	n.n.	✓
Bisbutoxyethylphthalate	n.n.	n.n.	✓
Biscyclohexylphthalate	n.n.	n.n.	✓
Bisethoxyethylphthalate	n.n.	n.n.	✓
Bisisobutylphthalate	n.n.	n.n.	✓
Bismethylglycolphthalate	n.n.	n.n.	✓
Bismethylphthalate	0.967 µg/L	n.n.	✓
Bispentylphthalat	n.n.	n.n.	✓
Bisphenylphthalate	n.n.	n.n.	✓
Dibutylphthalate	n.n.	n.n.	✓
Diethylphthalate	42.5 µg/L	n.n.	↑

Environmental Contaminants

Parameter	Measured Value	Ideal Value	Rating
6PPD	n.n.	n.n.	✓
6PPD - Quinone	n.n.	n.n.	✓
Octinoxate	n.n.	n.n.	✓
Octocrylen	n.n.	n.n.	✓
Oxybenzone	n.n.	n.n.	✓

Preservatives

Parameter	Measured Value	Ideal Value	Rating
Methylparaben	0.439 µg/L	n.n.	✓
Ethylparaben	n.n.	n.n.	✓
Propylparaben	n.n.	n.n.	✓
Butylparaben	n.n.	n.n.	✓

PFAS - "Forever-chemicals"

Parameter	Measured Value	Ideal Value	Rating
PFOA	n.n.	n.n.	✓
PFOS	n.n.	n.n.	✓

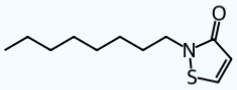
Other

Parameter	Measured Value	Ideal Value	Rating
Chlorpropham	n.n.	n.n.	✓

Untargeted Analysis

Underlined parameters contain links for further information about the substance

Non-Targeted Screening

Substance	Structure	Messwert	Rating
Octhilinone (OIT)		2840.0 counts	Pesticides/Herbicides

No action required	n.n Not found
Need for action	n.b Not measured
Urgent need for action	

Hello James,

Amino acids are generally low – but it's important to know that they are quickly consumed, so the time between dosing and sampling makes a difference. For this reason, they should also be dosed in several portions spread throughout the day. Also increased vitamin dosing is recommended.

Regarding pesticides a very low level of imidacloprid was detected, this is however not concerning. As a widespread pesticide, imidacloprid is found from times to times in tank. Due to the very low level detected, no harm is to be expected.

More concerning is the very high concentration of diethylphthalate, a common plasticizer. Use of carbon is recommended to bind it.

The trace levels of methylparaben, a common preservative are not concerning. Its used to stabilize many products for reef tanks.

Non-target screening revealed some octhilinone, a common biocide often used for fabrics, paints, etc – the level detected is not concerning.

In case of questions, I am happy to help!

Best regards, Christoph