



AquaBiomics tankDNA Test Report



About this report

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This report summarizes an analysis of [eDNA \(environmental DNA\)](#) in an aquarium water sample. Universal genetic markers were amplified from [Eukaryotic](#) DNA in the sample, and thousands of individual DNA molecules from this mixture were sequenced. Each sequence was then compared with public DNA databases to identify its origin. (You can read more about this method [here](#)).

This report summarizes the kinds of organisms detected in this sample, with a special focus on pathogens and parasites of concern in the saltwater aquarium industry and hobby.

Information about the sample

Sample ID	1000639
Sample Name	Pre-treatment 102922
Tank Name	150g
Sample Date	102922

Parasites

Type	Percent of eDNA	Group	Name
sq4986	84.689	Cryptocaryon	Cryptocaryon irritans
sq13152	0.957	Cryptocaryon	Cryptocaryon irritans
sq93936	0.279	Cryptocaryon	Cryptocaryon irritans
sq13216	0.239	Cryptocaryon	Cryptocaryon irritans
sq94172	0.199	Cryptocaryon	Cryptocaryon irritans
sq26062	0.120	Cryptocaryon	Cryptocaryon irritans
sq94971	0.120	Cryptocaryon	Cryptocaryon irritans
sq51222	0.080	Cryptocaryon	Cryptocaryon irritans
sq56988	0.080	Cryptocaryon	Cryptocaryon irritans

sq57689	0.080	Cryptocaryon	Cryptocaryon_irritans
sq96368	0.080	Cryptocaryon	Cryptocaryon_irritans
sq96369	0.080	Cryptocaryon	Cryptocaryon_irritans
sq96370	0.080	Cryptocaryon	Cryptocaryon_irritans
sq96371	0.080	Cryptocaryon	Cryptocaryon_irritans
sq96372	0.080	Cryptocaryon	Cryptocaryon_irritans
sq96374	0.080	Cryptocaryon	Cryptocaryon_irritans
sq96375	0.080	Cryptocaryon	Cryptocaryon_irritans
sq96385	0.080	Cryptocaryon	Cryptocaryon_irritans
sq51223	0.040	Cryptocaryon	Cryptocaryon_irritans
sq98234	0.040	Cryptocaryon	Cryptocaryon_irritans
sq98236	0.040	Cryptocaryon	Cryptocaryon_irritans
sq98238	0.040	Cryptocaryon	Cryptocaryon_irritans
sq98239	0.040	Cryptocaryon	Cryptocaryon_irritans
sq98240	0.040	Cryptocaryon	Cryptocaryon_irritans
sq98241	0.040	Cryptocaryon	Cryptocaryon_irritans

► [View the full table](#)

Dinoflagellates

This sample contained low levels of DNA from dinoflagellates (0.2%) - this is normal and does not suggest a problem.

► [View all Dinoflagellates](#)

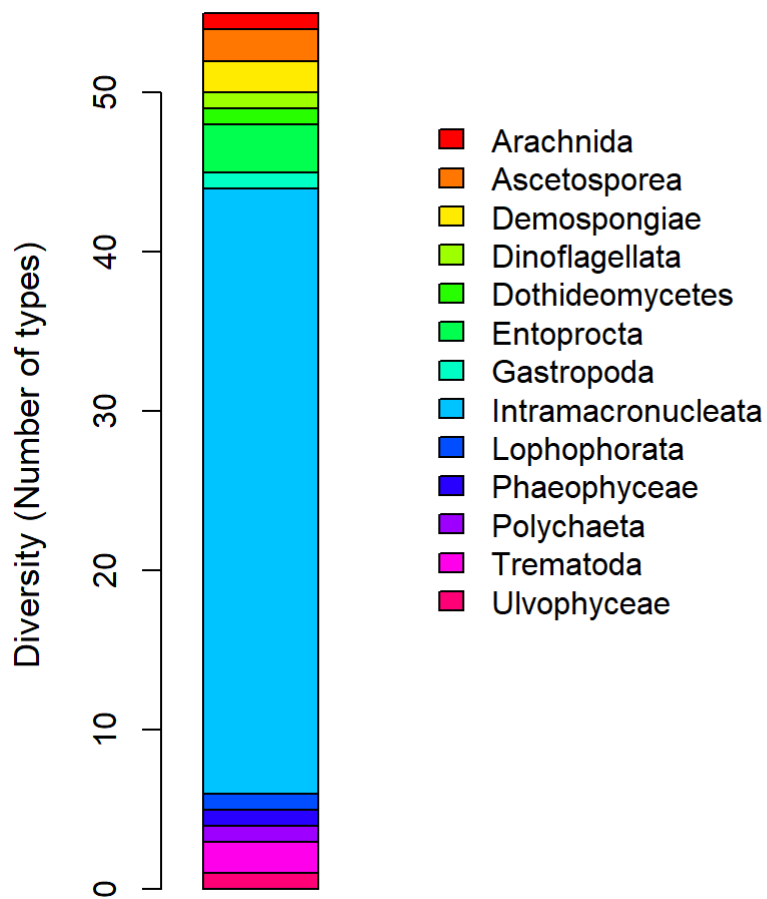
Diatoms

We did not detect any DNA from diatoms in this sample.

► [View all Diatoms](#)

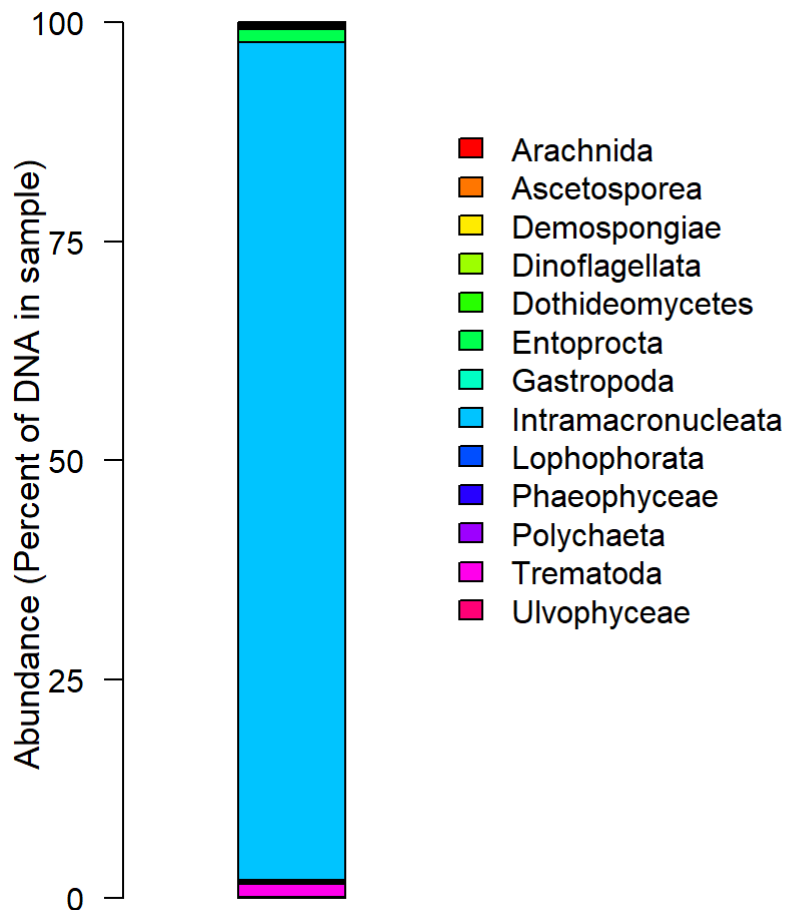
Eukaryotic Biodiversity

Diversity (Number of different types)	85
Number of Phyla	12
Number of Classes	13



This graph shows the diversity of each Eukaryotic group in the DNA sample. Each slice represents a different Class, and the size of the slice is proportional to the number of different types in that class. Unidentified sequences lacking any match in public databases are not shown.

Sample Composition



This graph shows the relative abundance of each Eukaryotic group in the DNA sample. Each slice represents a different Class, and the size of the slice is proportional to the fraction of DNA in the sample from that class. Unidentified sequences lacking any match in public databases are not shown.

Complete list of Eukaryotes identified

These tables, arranged by Class, list all Eukaryotic species that were detected in the sample and identified based on comparison with public DNA sequence databases. DNA sequences that lacked any matches in public datasets could not be identified, and are not shown here. "Type" is an arbitrary number assigned to each unique sequence found in the database.

▼ Complete Table

[Arachnida](#)

Type	Percent of eDNA	Family	Name
sq98249	0.04	Opiliones	Glycera cf.

[Ascetosporea](#)

Type	Percent of eDNA	Family	Name
sq5409	0.159	Ascetosporea	haplosporidian parasite
sq96367	0.080	Ascetosporea	haplosporidian parasite

[Demospongiae](#)

Type	Percent of eDNA	Family	Name
sq94976	0.12	Haplosclerida	Xestospongia muta
sq98250	0.04	Haplosclerida	Xestospongia muta

[Dinoflagellata](#)

Type	Percent of eDNA	Family	Name
sq1942	0.239	Dinoflagellata	uncultured eukaryote

[Dothideomycetes](#)

Type	Percent of eDNA	Family	Name
sq94977	0.12	Dissoconiaceae	Ramichloridium musae

[Entoprocta](#)

Type	Percent of eDNA	Family	Name
sq6347	1.116	Entoprocta	Loxosomella profundorum

sq2242	0.199	Entoprocta	Loxosomella profundorum
sq96382	0.080	Entoprocta	Loxosomella profundorum

Gastropoda

Type	Percent of eDNA	Family	Name
sq96381	0.08	Vetigastropoda	Calliotropis pagodiformis

Intramacronucleata

Type	Percent of eDNA	Family	Name
sq4986	84.689	Prostomatea	Cryptocaryon irritans
sq980	2.990	Protohypotrichia	Kiitricha marina
sq13152	0.957	Prostomatea	Cryptocaryon irritans
sq93763	0.758	Protohypotrichia	Kiitricha marina
sq93936	0.279	Prostomatea	Cryptocaryon irritans
sq13216	0.239	Prostomatea	Cryptocaryon irritans
sq94171	0.199	Protohypotrichia	Kiitricha marina
sq94172	0.199	Prostomatea	Cryptocaryon irritans
sq94428	0.159	Oligohymenophorea	Pseudovorticella paracratera
sq2041	0.120	Oligohymenophorea	Pseudovorticella paracratera
sq26062	0.120	Prostomatea	Cryptocaryon irritans
sq94966	0.120	Oligohymenophorea	Pseudovorticella paracratera
sq94971	0.120	Prostomatea	Cryptocaryon irritans
sq51222	0.080	Prostomatea	Cryptocaryon irritans
sq56988	0.080	Prostomatea	Cryptocaryon irritans
sq57689	0.080	Prostomatea	Cryptocaryon irritans
sq96364	0.080	Protohypotrichia	Kiitricha marina
sq96368	0.080	Prostomatea	Cryptocaryon irritans
sq96369	0.080	Prostomatea	Cryptocaryon irritans
sq96370	0.080	Prostomatea	Cryptocaryon irritans

sq96371	0.080	Prostomatea	Cryptocaryon irritans
sq96372	0.080	Prostomatea	Cryptocaryon irritans
sq96374	0.080	Prostomatea	Cryptocaryon irritans
sq96375	0.080	Prostomatea	Cryptocaryon irritans
sq96378	0.080	Protohypotrichia	Kiitricha marina
sq96379	0.080	Protohypotrichia	Kiitricha marina
sq96380	0.080	Protohypotrichia	Kiitricha marina
sq96385	0.080	Prostomatea	Cryptocaryon irritans
sq51223	0.040	Prostomatea	Cryptocaryon irritans
sq98234	0.040	Prostomatea	Cryptocaryon irritans
sq98236	0.040	Prostomatea	Cryptocaryon irritans
sq98238	0.040	Prostomatea	Cryptocaryon irritans
sq98239	0.040	Prostomatea	Cryptocaryon irritans
sq98240	0.040	Prostomatea	Cryptocaryon irritans
sq98241	0.040	Prostomatea	Cryptocaryon irritans
sq98244	0.040	Protohypotrichia	Kiitricha marina
sq98245	0.040	Protohypotrichia	Kiitricha marina
sq98246	0.040	Oligohymenophorea	Pseudovorticella paracratera

[Lophophorata](#)

Type	Percent of eDNA	Family	Name
sq94972	0.12	Lophophorata	Neoancistrocrania sp.

[Phaeophyceae](#)

Type	Percent of eDNA	Family	Name
sq94170	0.199	Ectocarpales	Halothrix ambigua

[Polychaeta](#)

Type	Percent of eDNA	Family	Name
sq96383	0.08	Palpata_Incertae_Sedis	Paranerilla limicola

Trematoda

Type	Percent of eDNA	Family	Name
sq93748	1.435	Plagiorchiida	Microphallidae sp.
sq96366	0.080	Plagiorchiida	Microphallidae sp.

Ulvophyceae

Type	Percent of eDNA	Family	Name
sq94975	0.12	Ulvophyceae	Phaeophila dendroides

DNA analysis conducted by [AquaBiomics LLC](#).