

COI Barcoding

Performed by the MR DNA lab, the purpose of this metagenomic analysis was to identify and compare species of vertebrates and invertebrate animals present in Fish Brew Bold FLO, Fish Brew Rise & Thrive, and Fish Brew Trifecta. The top genera per kingdom or domain are recorded below.

Fish Brew Bold FLO results gave 218 unique species from the kingdoms of metazoa, fungi, and plantae, and the domain eukarya. Of 69,767 total read hits, species in the domain eukarya make up 61% of read hits, metazoan species make up 30% of read hits, fungi make up 7% of read hits, and plantae species make up 2% of read hits. In total, 56 unique genera of eukarya, 88 unique genera of metazoa, and 18 unique genera of fungi were identified.

COI Barcoding (February 2022)			
	Genera Name	Relative Abundance	Unique Matches Frequency
Eukarya	<i>Lagenidium</i>	21.40%	9042
	<i>Pyropia</i>	15.25%	6442
	<i>Gomphonema</i>	10.51%	4442
	<i>Cochliopodium</i>	6.91%	2920
	<i>Phytophthora</i>	5.34%	2255
	<i>Aphanomyces</i>	3.43%	1451
Fungi	<i>Pluteus</i>	27.79%	1441
	<i>Synchaetomella</i>	23.82%	1235
	<i>Suillus</i>	21.62%	1121
	<i>Psathyrella</i>	11.40%	591
Metazoa	<i>Balella</i>	22.92	4846
	<i>Setobaudinia</i>	21.02	4443
	<i>Pristina</i>	12.03	2543
	<i>Scopalina</i>	4.04	855
Fish Brew Product(s): Fish Brew Bold FLO, Rise & Thrive, Trifecta			

Fish Brew Rise & Thrive results gave 175 unique species from the kingdoms of metazoa, fungi, plantae, and the domain eukarya. Of 152,317 total read hits, species in the domain eukarya make up 52% of read hits, metazoan species make up 47% of read hits, fungi make up 1% of read hits, and plantae species make up 0.1% of read hits. In total, 40 unique genera of eukarya, 77 unique genera of metazoa, and 12 unique genera of fungi were identified.

COI Barcoding (March 2022)			
	Genera Name	Relative Abundance	Unique Matches Frequency
Eukarya	<i>Plocamium</i>	30.90%	24573
	<i>Pythium</i>	30.08%	23923
	<i>Lagenidium</i>	15.16%	12059
	<i>Cochliopodium</i>	8.76%	6966
	<i>Dictyota</i>	7.71%	6133
	<i>Phytophthora</i>	1.57%	1248
Fungi	<i>Ganoderma</i>	78.12%	857
	<i>Entoloma</i>	11.30%	124
	<i>Gliocladium</i>	4.19%	46
Metazoa	<i>Hymeraphia</i>	79.15	56588
	<i>Xiphinema</i>	4.96	3546
	<i>Crucigera</i>	4.35	3113
Fish Brew Product(s): Rise & Thrive, Trifecta			

Fish Brew Trifecta results gave 230 unique species from the kingdoms of metazoa, fungi, plantae, and the domain eukarya. Of 126,139 total read hits, species in the domain eukarya make up 55% of read hits, metazoan species make up 43% of read hits, fungi make up 1% of read hits, and plantae species make up 1% of read hits. In total, 43 unique genera of eukarya, 112 unique genera of metazoa, and 12 unique genera of fungi were identified.

COI Barcoding (March 2022)			
	Genera Name	Relative Abundance	Unique Matches Frequency
Eukarya	<i>Parvamoeba</i>	54.87%	38146
	<i>Cochliopodium</i>	23.01%	15997
	<i>Herposiphonia</i>	4.47%	3110
	<i>Pyropia</i>	3.68%	2557
	<i>Achlya</i>	3.29%	2286
	<i>Pythium</i>	2.32%	1612
Fungi	<i>Paxillus</i>	22.48%	185
	<i>Ganoderma</i>	21.39%	176
	<i>Cortinarius</i>	17.86%	147
	<i>Albatrellus</i>	14.95%	123
	<i>Psathyrella</i>	12.15%	100
	<i>Clitocybe</i>	5.71%	47
Metazoa	<i>Parvamoeba</i>	54.87%	38146
	<i>Cochliopodium</i>	23.01%	15997
	<i>Herposiphonia</i>	4.47%	3110
	<i>Pyropia</i>	3.68%	2557
	<i>Achlya</i>	3.29%	2286
Fish Brew Product(s): Trifecta			