

Enzyme activity and relative stomach mass data from Rafanan et al. (2025) Fish Physiology and Biochemistry
PC = Pyloric ceca PI = Proximal intestine MI = Mid intestine DI = Distal intestine
Intestinal enzyme data on wild-caught fish from German et al. (2015) Zoology 118: 161-170. Distal intestine enzyme activity data in lab fed fish from Herrera et al. (2025) Ecological and Evolutionary Physiology 98: 73603!

Species	Amylase PC	Amylase PI	Amylase MI	Amylase DI	Maltase PC	Maltase PI	Maltase MI	Maltase DI	Trypsin PC	Trypsin PI	Trypsin MI	Trypsin DI	Aminopeptidase PC	Aminopeptidase PI	Aminopeptidase MI	Aminopeptidase DI	Lipase PC	Lipase PI	Lipase MI	Lipase DI	NAGase PC	NAGase PI	NAGase MI	NAGase DI	Pepsin (stomach)	Relative Stomach Mass	Body Mass	Diet	
35.9372046	63.1065115	14.24450371	10.93627107	0.367603	0.176908	1.3206192	0.8859877	1.002711	1.0501784	3.87550882	0.5589744	0.314439041	0.710462837	1.549072818	2.638974359	6.423131	5.344508	9.826526	5.744118	18.8326712	13.57823	77.518959	72.997003	4.139377337	0.005834711	6.05	Lab Carnivore		
20.8805394	43.1017263	20.2284035	10.43914609	0.2933771	0.3987748	0.8252633	0.2095936	1.189741	4.1060852	3.24898981	0.607265	1.482243952	0.58076962	1.32568863	1.702820513	6.246877	3.91978	5.744079	7.207353	28.0537272	8.32344	41.508671	184.62448	0.353101588	0.007659774	10.64	Lab Carnivore		
33.5260116	14.9716714	11.72793094	7.362623457	0.2628692	0.4985848	1.0205761	0.7906044	0.126535	0.9917297	0.34629484	0.3973333	0.419290829	0.252420616	1.791481191	3.311111111	1.676459	0.989449	2.473371	0.654918	41.98204	45.81976	84.826677	270.30413	2.808793345	0.007950868	51.29	Lab Carnivore		
17.3240633	14.6669229	13.22578697	12.67302781	0.5642982	1.9318881	0.9881184	0.3774443	0.349113	0.0450503	0.36267262	0.5617692	2.131509833	2.575051254	1.795707444	1.975353276	3.400299	3.212155	3.982118	1.350866	11.4690298	2.831693	6.5805841	161.12204	2.789555455	0.007861702	37.6	Lab Carnivore		
11.4921591	13.2342988	9.359706959	7.012081581	0.2623333	0.555539	1.0453918	0.5853224	0.379876	0.9402147	0.75774971	0.5363248	1.392235939	2.018367981	2.877978102	3.267290598	5.204073	3.808501	2.712746	2.5	9.85871549	3.159975	18.748874	278.96059	2.716911586	0.007378422	31.05	Lab Carnivore		
15.2517546	16.2884867	14.18049975	10.49653417	0.1729517	0.3032968	0.3522902	0.1528344	0.496443	1.2850223	0.19410523	0.2890427	0.165795216	1.78995374	0.633107648	0.696780627	3.810302	6.375076	3.365464	1.544493	32.844402	29.64595	30.172092	89.723967	2.887708873	0.007165539	38.42	Lab Carnivore		
11.58761	10.5048749	9.968096743	13.09177491	0.2334456	0.3624654	0.6297836	0.1272351	0.056347	0.2379954	1.46	0.1975399	1.480539223	1.325623842	1.36243886	1.723897436	2.785911	2.973483	2.429052	2.014551	7.48097537	1.072544	12.551636	143.02921	1.497162141	0.007062073	30.77	Lab Carnivore		
23.520087	24.0661002	17.1668283	11.95208411	0.3049113	0.4167636	0.6759428	0.2767404	0.879903	2.1332852	1.11796627	0.2003704	0.76155733	0.791940834	0.622752574	1.581196581	2.16642	4.811444	1.165877	0.014747	23.7268676	28.12342	55.796237	166.0971	3.472795129	0.006126354	27.7	Lab Omnivore		
19.6539015	25.714281	7.74491088	17.8843179	0.469855	1.3580263	0.9308642	0.9008042	0.266266	0.7092316	0.73434909	0.4453476	1.726641873	2.436705361	2.783789386	2.619609687	4.592763	5.96318	4.182439	1.5	89.7128447	21.41398	101.28561	183.27846	2.25571316	0.0101553	29.62	Lab Omnivore		
28.0490377	25.7688839	29.44491414	16.75199074	0.6931449	0.9837483	1.0563876	0.5723508	0.862355	1.0633274	0.64472957	0.4969231	3.287728027	1.960255221	2.310086992	2.114102564	4.033438746	2.878422	2.811791	1.276354	1.5	5.263648	2.982736	20.620978	258.27193	2.461486271	0.00989667	18.75	Lab Omnivore	
39.0790179	27.8451632	40.10674055	26.62724014	0.3412209	0.3697898	0.6768863	0.6296862	0.274668	0.8310452	0.88951793	0.7707692	0.77563571	1.151084202	2.063818837	2.914649573	7.481213	2.554086	4.120168	2.202108	3.96336489	2.701086	4.4707438	194.64258	1.797812047	0.010255474	13.7	Lab Omnivore		
14.2180588	12.4608836	12.0181143	20.60005368	0.286931	0.5477888	0.4695802	0.8506344	0.107658	0.1298087	0.08629883	0.5342735	0.996287252	1.202438511	0.971754133	4.704259259	4.038964	3.852843	4.108882	4.085621	10.3760033	3.330579	9.5165749	371.73548	2.638361939	0.002862684	25.78	Lab Omnivore		
32.864229	17.6383636	45.8574263	33.55255877	0.2724868	0.9533527	1.3372598	0.7820628	0.121713	1.6488753	0.46122483	1.0847009	1.141613362	2.301221167	1.352819237	4.874512821	3.174609	3.624646	2.77126	1.790147	15.538946	1.772043	9.382168	467.01387	2.118328118	0.01125731	13.68	Lab Omnivore		
16.8430044	4.40096135	19.28737269	15.75635745	0.2623476	0.4091948	0.5874501	0.3803325	0.696069	0.5084893	1.23134328	1.2492735	0.503529696	0.80200447	1.504975128	1.659273504	0.93612	3.301591	3.375178	0.465605	54.2040885	2277817	41.924719	143.21869	2.06	0.011027	14.51	Lab Herbivore		
17.1310409	15.9279762	22.3914192	13.07576693	0.2312813	0.6901146	0.4383823	0.248642	1.851847	0.7601382	0.53637117	0.6966154	1.321054303	1.538172448	1.920171888	2.166974359	9.517936	2.377811	4.936244	1.087059	51.0346207	2777316	140.88589	122.25993	1.852655022	0.005117826	36.07	Lab Herbivore		
28.7508918	18.8441448	27.48915878	11.83782846	0.2546126	0.5338246	0.8840032	0.5868176	0.380607	0.4223144	0.83946403	0.3740627	1.306174897	1.752716012	2.55821954	3.106826211	3.869595	4.311261	4.237042	1	8.19016698	1.739014	21.270084	134.5104	1.849183477	0.009021774	30.77	Lab Herbivore		
16.6186419	23.386096	15.58264046	16.15882945	0.3524979	0.7566894	0.7617113	0.3263889	0.151724	0.3445466	0.45641501	0.8153846	1.64201822	2.07672876	2.239727289	1.452820513	5.023203	4.021704	3.948658	0.352941	2.53458475	0.858245	25.833064	74.440763	1.99748292	0.009045005	18.22	Lab Herbivore		
6.91114693	12.5394678	12.47446081	16.47282966	0.2867287	0.6703961	1.2592078	0.6779012	0.266155	1.3604827	0.30418221	0.5714615	1.334712206	3.387943097	4.154125207	3.518410256	2.158081	4.323079	3.567503	1	10.0262951	2.847148	16.911585	140.35981	1.586686056	0.016066978	12.84	Lab Herbivore		
17.0492911	29.0795451	6.606301107	28.3137809	0.2952274	0.2651637	0.7081153	1.0593073	0.546291	0.1288846	0.41892809	1.1465983	1.141821756	0.664731896	1.472862958	3.556603989	2.399219	2.229924	1.709602	2.655621	7.54754007	5.52034	7.6115566	278.63356	2.915315315	0.009924893	9.32	Lab Herbivore		
25.9252405	31.0398591	16.94551658	21.99294533	0.3941412	0.6278941	0.9504272	0.8775772	0.923402	1.0888176	0.61308043	1.0029231	0.448776526	1.962046492	2.476382966	2.123589744	3.887732	3.152345	4.504543	0.92451	7.37917545	7.082903	14.158959	192.83564	2.186545729	0.011824324	10.36	Lab Herbivore		
83.5648148	40.5416667	7.611111111	7.311111111	0.5432099	0.9164094	1.1539352	0.3845679	3.585185	1.3218234	0.88205128	0.565584	1.078062678	2.719430199	7.076923077	4.2303139	5.333333	5.589444	1.85	1.676111	23.6913077	27.47835	55.383915	36.610028	3.991666667	0.011873682	60.13	29883 Wild		
32.6736111	29.3171296	0.24375	9.538888889	0.4783951	1.6049383	1.5567901	0.1351852	2.105413	1.5407407	0.74518519	0.9581766	1.664558405	4.016542117	7.321481481	3.554643875	3.838889	1.525	3.885556	6.031111	37.2707833	24.10105	39.369369	22.067371	1.726666667	0.015388267	33.226	61384 Wild		
31.6319444	38.4814815	2.868055556	7.285185185	0.400463	0.391358	1.6157407	0.5768519	1.287179	0.4893208	0.77128205	0.7813675	3.141880342	0.235213675	9.76957265	4.525470085	3.908333	0.857778	2.008889	2.364444	70.5707793	35.03	126.82365	83.781251	2.55	0.016682506	38.96297072	Wild		
30.8548515	35.9791667	31.47569444	12.50151741	0.2407407	0.6652778	0.9930556	0.3575561	1.28547	1.4946415	1.20769231	0.7993162	1.146438746	1.99923077	5.225641026	2.332535613	2.616162	3.122727	2.734848	2.188384	47.6504438	87.17738	110.64006	72.644299	7.766666667	0.020056773	28.633	71869 Wild		
43.6458333	70.9375	19.65347222	13.55902778	0.2824074	1.3919753	1.6982253	0.4918981	1.164103	1.9675214	1.63925926	0.9320513	3.287179487	2.449275	3.623188	3.931401	2.73913	33.7630698	45.38565	125.27872	58.07586	5.416666667								
138.159722	81.4236111	3.875925926	8.715972222	0.6574074	1.1157407	1.1746142	0.4878472	1.988034	1.5248433	1.5637307	0.8774929	2.4	1.891396011	7.500740741	3.744501425	5.766667	2.539444	1.906667	2.243889	52.456944	63.49182	128.16836	64.76937	8.36	0.019233261	11.6464911	Wild		
																											0.021913781	15.94886488	Wild
																											0.021913781	8.930453214	Wild