

Diets: C=Carnivore; O=Omnivore; W=Wild

RSM=Relative Stomach Mass (stomach mass (g)/body mass(g))x100

BM=Body Mass (g)

Anoplarchus purpurescens (natural diet:carnivore)

Phytichthys chirus (natural diet:omnivore)

Xiphister atropurpureus (natural diet:omnivore)

Xiphister mucosus (natural diet:herbivore)

Individual	Diet	RSM	BM (g)
Ap300	C	0.790614	5.54
Ap302	C	0.923308	6.65
Ap306	C	0.915757	6.41
Ap309	C	1.145511	3.23
Ap310	C	0.900356	5.62
Ap312	C	0.970711	4.78
Ap314	C	0.858075	12.26
Ap315	C	1.111111	7.02
Ap316	C	0.789899	4.95
Ap317	C	0.91182	5.33
Ap303	O	1.276786	8.96
Ap305	O	1.18785	5.43
Ap307	O	0.96896	9.02
Ap308	O	1.05517	5.8
Ap311	O	1.16647	8.59
Ap313	W	1.41176	4.42
Ap107	W	0.94004	9.84
Ap108	W	0.95304	12.35
Ap109	W	0.79389	6.55
Ap110	W	0.890316	10.12
Ap111	W	0.800481	20.8
Ap112	W	0.860504	5.95
Ap113	W	0.718245	4.33
Ap114	W	0.927954	3.47

Individual	Diet	RSM	BM (g)
Pc301	C	0.576369	3.47
Pc303	C	0.649351	3.08
Pc305	C	0.663404	2.35
Pc306	C	0.681063	10.35
Pc307	C	0.874126	5.72
Pc309	C	0.497512	4.02
Pc310	C	0.516796	3.87
Pc311	C	0.585987	3.14
Pc312	C	0.542495	5.53
Pc 31	W	1.619433	4.94
Pc 32	W	0.816327	7.35
Pc 33	W	1.047393	2.11
Pc 34	W	0.824176	3.64
Pc 35	W	1.199041	4.17
Pc 36	W	1.273885	3.14
Pc 37	W	0.9375	3.2
Pc 38	W	1.5	0.54
Pc 39	W	0.783878	14.39
Pc 25	W	0.965883	13.19
Pc 26	W	1.232558	2.15
Pc 27	W	1.153355	3.13
Pc 28	W	0.748273	13.03
Pc 29	W	1.474903	2.59

Individual	Diet	RSM	BM (g)
Xa300	C	1.319797	9.85
Xa301	C	1.087649	5.02
Xa302	C	1.008432	5.93
Xa305	C	0.906225	12.37
Xa306	C	1.007769	9.01
Xa308	C	1.156977	12.04
Xa309	C	1.338791	7.94
Xa310	C	0.935981	12.34
Xa311	C	1.121795	6.24
Xa312	C	1.242857	4.9
Xa313	C	1.211401	4.21
Xa103	W	1.355403	16.01
Xa104	W	1.57079	6.71
Xa105	W	1.452991	8.19
Xa106	W	1.671485	10.17
Xa107	W	1.445853	8.68
Xa108	W	1.146684	7.84
Xa109	W	1.587131	3.73
Xa110	W	1.437309	16.35
Xa111	W	1.786616	7.92
Xa112	W	1.322472	8.9
Xa113	W	1.421782	5.05

Individual	Diet	RSM	BM (g)
Xm303	C	1.006358	11.01
Xm306	C	1.405628	9.95
Xm309	C	1.961308	14.99
Xm314	C	1.501178	25.46
Xm300	C	1.440077	15.52
Xm302	O	1.949704	13.52
Xm305	O	1.934366	10.65
Xm307	O	1.788146	7.93
Xm310	O	1.717333	18.75
Xm311	O	1.293842	31.99
Xm312	O	1.559983	11.77
Xm313	O	1.449187	26.43
Xm 308	O	1.950041	12.19
Xm104	W	1.583686	18.88
Xm105	W	1.916529	30.19
Xm106	W	1.897222	39.6
Xm107	W	1.988921	20.76
Xm108	W	1.504826	10.36
Xm109	W	1.966929	6.35
Xm110	W	1.645408	3.92
Xm111	W	1.909612	62.84

Diets: C=Carnivore; O=Omnivore; W=Wild

Gastric Pepsin Activities (μmol min⁻¹ g tissue⁻¹)

Anoplarchus purpurescens (natural diet:carnivore)

Individual	Diet	Pepsin
Ap300	C	4.930165
Ap302	C	9.24595
Ap306	C	14.57857
Ap309	C	15.90661
Ap310	C	9.183327
Ap312	C	6.238706
Ap314	C	8.066667
Ap307	O	12.11444
Ap305	O	24.6511
Ap308	O	9.515556
Ap311	O	6.71905
Ap313	O	5.56333
Ap107	W	4.28288
Ap108	W	3.05023
Ap109	W	5.2681
Ap110	W	2.14293
Ap111	W	2.65278
Ap112	W	4.28213
Ap113	W	7.56735
Ap114	W	8.14194

Phytichthys chirus (natural diet:omnivore)

Individual	Diet	Pepsin
Pc301	C	6.616667
Pc303	C	5.661111
Pc305	C	4.28
Pc306	C	4.808444
Pc307	C	5.129167
Pc309	C	5.916667
Pc310	C	7.451389
Pc311	C	13.53546
Pc312	C	6.077778
Pc 31	W	5.105556
Pc 32	W	1.55
Pc 33	W	7.326
Pc 34	W	3.423611
Pc 35	W	5.811111
Pc 36	W	3.945833
Pc 37	W	2.577778
Pc 38	W	8.286667
Pc 39	W	2.946667

Xiphister atropurpureus (natural diet:omnivore)

Individual	Diet	Pepsin
Xa300	C	1.561682
Xa301	C	5.222889
Xa302	C	6.612667
Xa305	C	3.962311
Xa306	C	4.524867
Xa308	C	2.415111
Xa309	C	3.343333
Xa310	C	1.516667
Xa311	C	3.070222
Xa312	C	2.827
Xa313	C	4.026667
Xa103	W	2.765133
Xa104	W	8.528489
Xa105	W	5.991578
Xa106	W	1.965333
Xa107	W	3.237333
Xa108	W	4.45
Xa109	W	7.192889
Xa110	W	3.093433
Xa111	W	3.5006
Xa112	W	3.251389
Xa113	W	3.612

Xiphister mucosus (natural diet:herbivore)

Individual	Diet	Pepsin
Xm303	C	2.245
Xm306	C	4.3508
Xm309	C	3.098889
Xm314	C	2.243333
Xm300	C	3.492
Xm302	O	2.002856
Xm305	O	2.5493
Xm307	O	3.186574
Xm310	O	0.943911
Xm311	O	1.365689
Xm312	O	4.076222
Xm313	O	2.484444
Xm104	W	1.544131
Xm105	W	0.988379
Xm106	W	1.30889
Xm107	W	1.36772
Xm108	W	2.9374
Xm109	W	3.248
Xm110	W	4.812111

Gastric Chitinase Activities ($\mu\text{mol min}^{-1} \text{g tissue}^{-1}$)

Anoplarchus purpureus (natural diet:carnivore)			Phytichthys chirus (natural diet:omnivore)			Xiphister atropurpureus (natural diet:omnivore)			Xiphister mucosus (natural diet:herbivore)		
Individual	Diet	Chitinase	Pc301	C	0.07	Xa300	C	0.025697	Xm302	O	0.007272
Ap300	C	0.028409	Pc303	C	0.061111	Xa301	C	0.0285	Xm305	O	N/A
Ap302	C	0.038636	Pc305	C	0.01125	Xa302	C	0.021	Xm307	O	0.002303
Ap306	C	0.014848	Pc306	C	0.005167	Xa305	C	0.048356	Xm310	O	0.001028
Ap309	C	0.02947	Pc307	C	0.090833	Xa306	C	0.0023	Xm311	O	0.002044
Ap310	C	0.010909	Pc309	C	0.09	Xa308	C	N/A	Xm312	O	0.001444
Ap312	C	0.029751	Pc310	C	0.086111	Xa309	C	0.003333	Xm313	O	0.000889
Ap314	C	0.038333	Pc311	C	N/A	Xa310	C	0.0025	Xm308	O	0.000717
Ap 303	O	0.018182	Pc312	C	0.094444	Xa311	C	0.003556	Xm303	C	0.000417
Ap 305	O	0.040909	Pc31	W	0.05	Xa103	W	0.023928	Xm306	C	0.028713
Ap 307	O	0.041667	Pc32	W	0.012778	Xa104	W	0.056869	Xm309	C	0.000556
Ap308	O	0.047778	Pc33	W	0.065572	Xa105	W	0.066478	Xm314	C	0.01125
Ap311	O	0.027273	Pc34	W	0.069444	Xa106	W	0.013333	Xm300	C	0.001
Ap313	O	0.020152	Pc35	W	0.09	Xa107	W	0.019333	Xm104	W	0.007756
Ap107	W	0.029091	Pc36	W	0.055	Xa108	W	0.0125	Xm105	W	0.002753
Ap108	W	N/A	Pc37	W	0.040556	Xa109	W	N/A	Xm106	W	0.009308
Ap109	W	0.008712	Pc38	W	0.073333	Xa110	W	0.004578	Xm107	W	0.00837
Ap110	W	0.007879	Pc39	W	0.023833	Xa111	W	0.008817	Xm108	W	0.019633
Ap111	W	0.010076				Xa112	W	0.004514	Xm109	W	0.013333
Ap112	W	0.04				Xa113	W	0.014	Xm110	W	0.021083
Ap113	W	0.047727									
Ap114	W	0.016214									