Essential, Non-essential and Toxic Elements in Muscle of Meagre (*Argyrosomus regius*) from Tagus Estuary (Portugal)

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Table S1. *Results ICP-OES analysis in mg/kg wet weight for semi-quantification of each element in all samples of meagre muscle.*

Gender	Ontogenic Stage	Ag	Al	B	Ba	Bi	Ca	Fe	K	Li	Mg	Na	P	S	Sb	Si	Sn	Sr	Ti	Tl	V	W	Zr
Male	Small	-	1.475	1.521	-	-	91.292	1.693	3207.711	-	264.453	465.480	1676.930	1785.451	-	4.106	-	-	0.034	-	-	-	-
Male	Small	-	1.964	0.513	-	-	73.010	1.815	3737.898	-	274.772	288.337	1828.913	1827.801	-	3.279	-	-	0.029	-	-	-	-
Male	Small	-	2.356	3.198	-	-	71.349	1.688	3182.893	-	241.007	425.424	1677.510	1619.552	-	3.034	-	-	0.027	-	-	-	-
Male	Small	-	21.809	2.812	-	-	77.120	1.641	3515.647	-	265.055	356.125	1623.914	1680.236	-	3.392	-	-	0.024	-	-	-	-
Male	Small	-	1.742	0.503	-	-	77.017	1.290	3652.009	-	267.750	394.344	1711.556	2129.721	-	3.621	-	-	0.081	-	-	-	-
Male	Small	-	4.842	1.694	-	-	80.746	4.566	3220.657	-	253.359	371.742	1550.291	1881.97	-	5.921	-	-	0.120	-	-	-	-
Male	Small	-	3.301	0.240	-	-	74.104	1.440	3556.454	-	269.665	330.539	1620.196	2012.578	-	3.024	-	-	0.047	-	-	-	-
Male	Small	-	1.179	2.217	-	-	67.111	1.000	3680.735	-	253.141	351.091	1555.946	1937.384	-	3.887	-	-	0.029	-	-	-	-
Male	Small	-	0.746	0.137	-	-	62.251	0.651	3430.891	-	245.089	434.669	1524.302	1984.936	-	3.012	-	-	0.026	-	-	-	-
Female	Small	-	3.744	2.116	-	-	71.968	1.115	3571.772	-	263.389	248.978	1698.078	1770.832	-	3.595	-	-	0.035	-	-	-	-
Female	Small	-	2.875	0.231	-	-	72.528	1.848	3527.807	-	245.087	602.476	1671.648	1699.457	-	3.597	-	-	0.133	-	-	-	-
Female	Small	-	3.761	0.082	-	-	65.296	1.095	3521.715	-	251.361	349.328	1640.981	2039.316	-	3.035	-	-	0.032	-	-	-	-
Female	Small	-	2.777	-	-	-	79.309	0.861	3199.361	-	241.217	344.105	1504.211	1830.293	-	3.413	-	-	0.063	-	-	-	-
Female	Small	-	0.100	0.523	-	-	66.821	0.885	3372.103	-	256.595	242.468	1546.491	2101.855	-	3.140	-	-	0.038	-	-	-	-
Male	Juvenile	-	4.913	3.154	-	-	68.032	3.660	3087.559	-	235.846	410.403	1646.476	1539.263	-	3.947	-	-	0.035	-	-	-	-
Male	Juvenile	-	45.898	0.276	-	-	65.196	2.877	3245.578	-	243.773	758.071	1719.399	1664.315	-	8.321	-	-	0.391	-	-	-	-
Male	Juvenile	-	22.284	0.385	-	-	72.934	1.411	3375.956	-	274.802	408.818	1660.780	1667.876	-	3.075	-	-	0.023	-	-	-	-
Male	Juvenile	-	1.961	0.878	-	-	62.326	1.167	3518.011	-	260.629	307.386	1681.733	1592.543	-	4.265	-	-	0.145	-	-	-	-
Male	Juvenile	-	2.693	0.723	-	-	78.760	3.555	3517.379	-	246.944	433.417	1767.046	1736.825	-	5.117	-	-	1.143	-	-	-	-
Male	Juvenile	-	4.016	0.703	-	-	68.951	1.277	3184.160	-	246.445	576.220	1616.309	1625.305	-	3.070	-	-	0.041	-	-	-	-
Male	Juvenile	-	14.628	8.079	-	-	68.895	2.039	3491.526	-	247.775	456.326	1634.139	1615.272	-	3.552	-	-	0.115	-	-	-	-
Male	Juvenile	-	3.049	0.659	-	-	77.534	0.9818	3603.572	-	273.702	407.904	1649.961	1869.072	-	2.970	-	-	0.023	-	-	-	-
Male	Juvenile	-	4.346	0.5836	-	-	60.620	1.202	3591.059	-	252.121	297.395	1581.439	1605.201	-	2.825	-	-	0.032	-	-	-	-
Male	Juvenile	-	3.0406	0.288	-	-	69.997	1.022	3817.103	-	263.371	473.676	1726.898	2075.896	-	3.163	-	-	0.038	-	-	-	-
Male	Juvenile	-	3.9726	0.699	-	-	79.735	1.318	3696.799	-	270.484	389.333	1642.425	2124.940	-	3.587	-	-	0.025	-	-	-	-
Male	Juvenile	-	3.4826	0.052	-	-	69.155	1.256	3373.958	-	253.085	298.064	1598.638	1743.614	-	5.556	-	-	0.230	-	-	-	-
Female	Juvenile	-	2.339	0.432	-	-	70.473	2.188	3185.474	-	247.697	347.169	1628.282	1666.108	-	3.557	-	-	0.121	-	-	-	-
Female	Juvenile	-	1.857	0.529	-	-	63.431	11.503	3135.021	-	230.528	540.854	1410.667	1561.523	-	2.758	-	-	0.029	-	-	-	-
Female	Juvenile	-	59.223	0.416	-	-	77.250	3.183	3559.279	-	255.293	460.934	1524.704	1854.465	-	3.412	-	-	0.050	-	-	-	-
Female	Juvenile	-	6.274	0.305	-	-	65.350	1.511	3562.37	-	249.200	316.379	1658.977	1711.054	-	3.094	-	-	0.024	-	-	-	-
Female	Juvenile	-	3.187	2.224	-	-	61.284	0.940	3579.823	-	241.723	359.484	1622.878	1687.732	-	2.797	-	-	0.025	-	-	-	-
Female	Juvenile	-	4.866	2.501	-	-	75.990	1.205	3499.861	-	257.194	300.326	1619.605	2000.989	-	2.878	-	-	0.050	-	-	-	-
Female	Juvenile	-	2.782	1.138	-	-	195.906	1.238	3717.741	-	282.406	289.996	1733.657	2091.207	-	3.397	-	0.504	0.026	-	0.112	-	-

Female	Juvenile	-	6.348	0.475	-	-	61.515	1.128	3478.366	-	260.059	314.888	1760.090	1647.053	-	3.687	-	-	0.031	-	-	-	-
Female	Juvenile	-	6.539	0.078	-	-	75.571	2.909	3543.434	-	256.314	269.783	1543.634	1827.803	-	4.423	-	-	0.069	-	-	-	-
Male	Adult	-	6.299	2.909	-	-	62.697	3.362	3518.973	-	236.528	764.617	1694.416	1666.390	-	3.680	-	-	0.036	-	-	-	-
Male	Adult	-	32.719	2.704	-	-	71.423	1.703	3289.883	-	226.929	702.794	1489.155	1548.919	-	3.420	-	-	0.040	-	-	-	-
Male	Adult	-	6.373	1.560	-	-	76.567	1.181	3504.756	-	247.166	729.794	1694.426	1772.094	-	3.61985	-	-	0.052	-	-	-	-
Male	Adult	-	3.751	0.464	-	-	61.747	1.060	3369.148	-	236.501	533.188	1476.771	1524.742	-	2.928	-	-	0.066	-	-	-	-
Male	Adult	-	1.588	0.294	-	-	69.787	1.929	3597.936	-	253.500	453.879	1553.775	1610.457	-	2.876	-	-	0.037	-	-	-	-
Male	Adult	-	41.539	2.369	-	-	69.071	1.642	3521.143	-	238.043	391.316	1507.619	1607.177	-	2.971	-	-	0.044	-	-	-	-
Male	Adult	-	0.843	3.020	-	-	80.801	1.784	3312.364	-	220.149	654.330	1461.480	1506.620	-	2.466	-	-	0.023	-	-	-	-
Male	Adult	-	15.254	0.203	-	-	65.702	1.404	3260.616	-	246.417	473.109	1493.050	1450.953	-	5.624	-	-	0.425	-	-	-	-
Male	Adult	-	5.523	3.606	-	-	57.295	1.148	3278.468	-	238.781	441.957	1388.105	1587.111	-	2.946	-	-	0.229	-	-	-	-
Male	Adult	-	4.693	3.998	-	-	71.166	0.985	3604.811	-	253.871	210.961	1565.750	1562.820	-	2.707	-	-	-	-	-	-	-
Male	Adult	-	12.410	6.815	-	-	67.656	1.017	3384.726	-	252.710	321.130	1451.657	1735.878	-	3.624	-	-	0.033	-	-	-	-
Female	Adult	-	38.036	31.981	-	-	55.822	1.516	2433.064	-	203.778	1108.091	1380.047	1404.723	-	4.245	-	-	0.054	-	-	-	-
Female	Adult	-	26.292	3.337	-	-	68.453	3.170	3433.786	-	236.211	435.445	1674.610	1463.168	-	4.815	-	-	0.043	-	-	-	-
Female	Adult	-	15.918	0.570	-	-	58.454	1.662	3420.603	-	241.679	282.253	1664.207	1458.836	-	3.513	-	-	0.037	-	-	-	-
Female	Adult	-	70.455	0.189	-	-	70.488	1.723	3109.293	-	231.747	777.278	1488.558	1615.042	-	2.9098	-	-	0.046	-	-	-	-
Female	Adult	-	3.364	0.618	-	-	70.130	1.954	3701.594	-	236.765	530.457	1626.572	1806.336	-	4.766	-	-	0.029	-	-	-	-
Female	Adult	-	2.718	0.299	-	-	112.190	0.929	2867.508	-	214.750	1021.466	1373.494	1740.175	-	2.934	-	-	0.026	-	-	-	-
Female	Adult	-	9.607	2.744	-	-	65.651	1.365	3217.496	-	238.319	564.427	1412.382	1683.598	-	2.941	-	-	0.043	-	-	-	-
Female	Adult	-	10.615	1.625	-	-	68.646	1.004	3277.905	-	241.910	420.548	1449.814	1778.381	-	2.544	-	-	0.029	-	-	-	-
Female	Adult	-	4.745	0.278	-	-	65.300	0.842	3306.665	-	250.543	563.517	1399.447	1659.214	-	2.664	-	-	-	-	-	-	-

Ag (Silver), Al (Aluminium), B (Boron), Ba (Barium), Bi (Bismuth), Ca (Calcium), Fe (Iron), K (Potassium), Li (Lithium), Mg (Magnesium), Na (Sodium), P (Phosphorus), S (Sulfur), Sb (Antimony), Si (Silicon), Sn (Tin), Sr (Strontium), Ti (Titanium), Tl (Thallium), V (Vanadium), W (Tungsten) and Zr (Zirconium).

Table S2. *Results ICP-OES analysis in mg/kg ww for quantification of each element in all samples of meagre muscle.*

Gender	Ontogenic Stage	As	Cd	Co	Cr	Cu	Hg	Mn	Mo	Ni	Pb	Se	Zn
Male	Small	1.512	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOQ	<LOD	<LOD	<LOD	0.461	2.913
Male	Small	0.547	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOQ	<LOD	<LOD	<LOD	0.362	3.278
Male	Small	1.085	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.408	2.838
Male	Small	1.793	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOQ	<LOD	<LOD	<LOD	0.534	3.699
Male	Small	1.080	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOQ	<LOD	<LOD	<LOD	0.519	2.847
Male	Small	1.107	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOQ	<LOD	<LOD	<LOD	0.496	2.765
Male	Small	1.060	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOQ	<LOD	<LOD	<LOD	0.629	2.711
Male	Small	0.576	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOQ	<LOD	<LOD	<LOD	0.489	2.938
Male	Small	0.891	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOQ	<LOD	<LOD	<LOD	0.577	3.438
Female	Small	1.086	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOQ	<LOD	<LOD	<LOD	0.464	2.793
Female	Small	0.496	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOQ	<LOD	<LOD	<LOD	0.490	3.989
Female	Small	1.070	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOQ	<LOD	<LOD	<LOD	0.549	2.973
Female	Small	1.734	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOQ	<LOD	<LOD	<LOD	0.611	2.498
Female	Small	1.532	<LOD	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOD	<LOD	<LOD	0.726	2.802
Male	Juvenile	0.348	<LOD	<LOD	<LOQ	0.482	<LOQ	<LOQ	<LOD	<LOD	<LOD	<LOQ	4.260
Male	Juvenile	0.551	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOD	<LOD	<LOD	<LOD	<LOQ	3.623
Male	Juvenile	0.894	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOQ	<LOD	<LOD	<LOD	0.413	3.594
Male	Juvenile	0.826	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOQ	<LOD	<LOD	<LOD	0.380	2.853
Male	Juvenile	0.951	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOQ	<LOD	<LOD	<LOD	0.434	3.151
Male	Juvenile	0.729	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOQ	<LOD	<LOD	<LOD	0.357	2.821
Male	Juvenile	0.464	<LOD	<LOD	<LOQ	0.528	<LOQ	<LOD	<LOD	<LOD	<LOD	0.571	2.570
Male	Juvenile	0.813	<LOD	<LOD	<LOD	0.479	<LOQ	<LOQ	<LOD	<LOD	<LOD	0.513	2.664
Male	Juvenile	0.371	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOQ	<LOD	<LOD	<LOD	0.408	2.592
Male	Juvenile	0.530	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOQ	<LOD	<LOD	<LOD	0.587	3.319
Male	Juvenile	1.683	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOQ	<LOD	<LOD	<LOD	0.635	2.986
Male	Juvenile	1.292	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOQ	<LOD	<LOD	<LOD	0.641	2.416
Female	Juvenile	1.156	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOQ	<LOD	<LOD	<LOD	0.543	3.534
Female	Juvenile	1.253	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOQ	<LOD	<LOD	<LOD	0.425	2.234
Female	Juvenile	0.445	<LOD	<LOD	<LOD	0.482	<LOQ	<LOQ	<LOD	<LOD	<LOD	0.597	2.802
Female	Juvenile	0.597	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOQ	<LOD	<LOD	<LOD	0.601	2.931
Female	Juvenile	0.447	<LOD	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOD	<LOD	<LOD	0.727	2.437
Female	Juvenile	1.145	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOQ	<LOD	<LOD	<LOD	0.442	2.919
Female	Juvenile	2.537	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOQ	<LOD	<LOD	<LOD	0.568	3.167
Female	Juvenile	1.211	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOQ	<LOD	<LOD	<LOD	0.473	2.915
Female	Juvenile	0.539	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOQ	<LOD	<LOD	<LOD	0.676	2.749
Male	Adult	1.335	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOQ	<LOD	<LOD	<LOD	<LOQ	8.646
Male	Adult	0.361	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.719	2.341
Male	Adult	0.855	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOD	<LOD	<LOD	<LOD	0.686	2.571
Male	Adult	0.433	<LOD	<LOD	<LOD	<LOD	0.657	<LOD	<LOD	<LOD	<LOD	0.555	2.892
Male	Adult	0.860	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOD	<LOD	<LOD	<LOD	0.646	4.053
Male	Adult	0.594	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOD	<LOD	<LOD	<LOD	0.573	3.206
Male	Adult	0.670	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOD	<LOD	<LOD	<LOD	0.396	2.639
Male	Adult	0.668	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOD	<LOD	<LOD	<LOD	0.721	2.784
Male	Adult	0.518	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOD	<LOD	<LOD	<LOD	<LOQ	3.486
Male	Adult	0.558	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOQ	<LOD	<LOQ	<LOD	0.487	2.649
Male	Adult	1.032	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOD	<LOD	<LOD	<LOD	0.541	2.639
Female	Adult	0.924	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOD	<LOD	<LOD	<LOD	<LOQ	4.717
Female	Adult	1.003	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOQ	<LOD	<LOD	<LOD	0.378	3.666
Female	Adult	0.578	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOQ	2.816
Female	Adult	1.260	<LOD	<LOD	<LOD	<LOD	0.488	<LOD	<LOD	<LOD	<LOD	0.654	2.622
Female	Adult	1.293	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOD	<LOD	<LOD	<LOD	0.524	2.894
Female	Adult	0.590	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOD	<LOD	<LOD	<LOD	0.495	2.740
Female	Adult	0.840	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOD	<LOD	<LOD	<LOD	0.549	2.632
Female	Adult	1.582	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOD	<LOD	<LOD	<LOD	0.421	2.979
Female	Adult	0.364	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOD	<LOD	<LOD	<LOD	<LOQ	2.595

As (Arsenic), Cd (Cadmium), Co (Cobalt), Cr (Chromium), Cu (Copper), Hg (Mercury), Mn (Manganese), Mo (Molybdenum), Ni (Nickel), Pb (Lead), Se (Selenium), Zn (Zinc), <LOD (below limit of detection), and <LOQ (below limit of quantification).

Table S3. *Nutritional values of essential elements in milligrams per 100 g of wet weight of wild meagre flesh in all meagre samples.*

Gender	Ontogenic Stage	Ca	Fe	K	Mg	Na	P	Se	Zn
Male	Small	9.129	0.169	320.771	26.445	46.548	167.693	0.046	0.291
Male	Small	7.301	0.182	373.790	27.477	28.835	182.891	0.036	0.328
Male	Small	7.135	0.169	318.289	24.101	42.542	167.751	0.041	0.284
Male	Small	7.712	0.164	351.565	26.506	35.613	162.391	0.053	0.370
Male	Small	7.702	0.129	365.201	26.775	39.434	171.156	0.052	0.285
Male	Small	8.075	0.457	322.066	25.336	37.174	155.029	0.050	0.277
Male	Small	7.410	0.144	355.645	26.967	33.054	162.020	0.063	0.271
Male	Small	6.711	0.100	368.074	25.314	350109	155.595	0.049	0.294
Male	Small	6.225	0.065	343.089	24.509	43.467	152.430	0.058	0.344
Female	Small	7.197	0.112	357.177	26.339	24.898	169.808	0.046	0.279
Female	Small	7.253	0.185	352.781	24.509	60.248	167.165	0.049	0.399
Female	Small	6.530	0.110	352.172	25.136	34.933	164.098	0.055	0.297
Female	Small	7.931	0.086	319.936	24.122	34.411	150.421	0.061	0.250
Female	Small	6.682	0.089	337.210	25.660	24.247	154.649	0.073	0.280
Male	Juvenile	6.803	0.366	308.756	23.585	41.040	164.648	-	0.426
Male	Juvenile	6.520	0.288	324.558	24.377	75.807	171.940	-	0.362
Male	Juvenile	7.293	0.141	337.596	27.480	40.882	166.078	0.041	0.359
Male	Juvenile	6.233	0.117	351.801	26.063	30.739	168.173	0.038	0.285
Male	Juvenile	7.876	0.356	351.738	24.694	43.342	176.705	0.043	0.315
Male	Juvenile	6.895	0.128	318.416	24.645	57.622	161.631	0.036	0.282
Male	Juvenile	6.890	0.204	349.153	24.778	45.633	163.414	0.057	0.257
Male	Juvenile	7.753	0.098	360.357	27.370	40.790	164.996	0.051	0.266
Male	Juvenile	6.062	0.120	359.106	25.212	29.740	158.144	0.041	0.259
Male	Juvenile	7.000	0.102	381.710	26.337	47.368	172.690	0.059	0.332
Male	Juvenile	7.974	0.132	369.680	27.048	38.933	164.243	0.064	0.299
Male	Juvenile	6.916	0.126	337.396	25.309	29.806	159.864	0.064	0.242
Female	Juvenile	7.047	0.219	318.547	24.770	34.717	162.828	0.054	0.353
Female	Juvenile	6.343	1.150	313.502	23.053	54.085	141.067	0.043	0.223
Female	Juvenile	7.725	0.318	355.928	25.529	46.093	152.470	0.060	0.280
Female	Juvenile	6.535	1.511	356.237	24.920	31.638	165.898	0.060	0.293
Female	Juvenile	6.128	0.940	357.982	24.172	35.948	162.288	0.073	0.244
Female	Juvenile	7.599	1.205	349.986	25.719	30.033	161.961	0.044	0.292
Female	Juvenile	19.591	1.238	371.774	28.241	29.000	173.366	0.057	0.317
Female	Juvenile	6.152	1.128	347.837	26.006	31.489	176.009	0.047	0.292
Female	Juvenile	7.557	2.909	354.343	25.631	26.978	154.3.63	0.068	0.275
Male	Adult	6.270	0.336	351.897	23.653	76.462	169.442	-	0.865
Male	Adult	7.142	0.170	328.988	22.693	70.279	148.916	0.072	0.234
Male	Adult	7.657	0.118	350.476	24.717	72.979	169.443	0.069	0.257
Male	Adult	6.175	0.106	336.915	23.650	53.319	147.677	0.056	0.289
Male	Adult	6.979	0.193	359.794	25.350	45.385	155.378	0.065	0.405
Male	Adult	6.907	0.164	352.114	23.804	39.132	150.762	0.057	0.321
Male	Adult	8.080	0.178	331.236	22.015	65.433	146.148	0.040	0.264
Male	Adult	6.570	0.140	326.062	24.642	47.311	149.305	0.072	0.278
Male	Adult	5.730	0.115	327.847	23.878	44.196	138.811	-	0.349
Male	Adult	7.117	0.099	360.481	25.387	21.096	156.575	0.049	0.265
Male	Adult	6.766	0.102	338.473	25.271	32.113	145.166	0.054	0.264
Female	Adult	5.582	0.152	243.306	20.378	110.809	138.005	-	0.472
Female	Adult	6.845	0.317	343.379	23.621	43.545	167.461	0.038	0.367
Female	Adult	5.845	0.166	342.060	24.168	28.225	166.421	-	0.282
Female	Adult	7.049	0.172	310.929	23.175	77.728	148.856	0.065	0.262
Female	Adult	7.013	0.195	370.159	23.677	53.043	162.657	0.052	0.289
Female	Adult	11.219	0.093	286.751	21.475	102.147	137.349	0.050	0.274
Female	Adult	6.565	0.137	321.750	23.832	56.443	141.238	0.055	0.263
Female	Adult	6.865	0.100	327.791	24.191	42.055	144.981	0.042	0.298
Female	Adult	6.530	0.084	330.667	25.054	56.352	139.945	-	0.260

Ca (Calcium), Fe (Iron), K (Potassium), Mg (Magnesium), Na (Sodium), P (Phosphorus), Se (Selenium) and Zn (Zinc).

Table S4. *Target Hazard Quotient (THQ) for As, Hg, Se and Zn, Hazard index (HI) and Target carcinogenic Risk (TR) for As, calculated for each sample using concentration of each element in muscle of wild meagre.*

Gender	Ontogenic Stage	$THQ_{inorganicAs}$	$THQ_{methyl\text{-}Hg}$	THQ_{Se}	THQ_{Zn}	HI	TR_{AS}
Male	Small	2.678	-	0.196	0.021	2.895	2.411E-4
Male	Small	0.969	-	0.154	0.023	1.146	8.718E-05
Male	Small	1.923	-	0.173	0.020	2.116	1.731E-4
Male	Small	3.177	-	0.227	0.026	3.430	2.859E-4
Male	Small	1.914	-	0.221	0.020	2.155	1.723E-4
Male	Small	1.962	-	0.211	0.020	2.192	1.766E-4
Male	Small	1.879	-	0.267	0.019	2.165	1.691E-4
Male	Small	1.021	-	0.208	0.021	1.250	9.191E-05
Male	Small	1.578	-	0.246	0.024	1.848	1.421E-4
Female	Small	1.924	-	0.197	0.020	2.141	1.731E-4
Female	Small	0.879	-	0.208	0.028	1.115	7.908E-05
Female	Small	1.896	-	0.233	0.021	2.150	1.706E-4
Female	Small	3.073	-	0.260	0.018	3.351	2.766E-4
Female	Small	2.715	-	0.309	0.020	3.043	2.443E-4
Male	Juvenile	0.616	-	-	0.030	0.647	5.548E-05
Male	Juvenile	0.976	-	-	0.026	1.002	8.784E-05
Male	Juvenile	1.584	-	0.176	0.025	1.785	1.426E-4
Male	Juvenile	1.463	-	0.162	0.020	1.645	1.317E-4
Male	Juvenile	1.684	-	0.185	0.022	1.892	1.516E-4
Male	Juvenile	1.292	-	0.152	0.020	1.463	1.163E-4
Male	Juvenile	0.822	-	0.243	0.018	1.083	7.394E-05
Male	Juvenile	1.441	-	0.218	0.019	1.678	1.297E-4
Male	Juvenile	0.658	-	0.174	0.018	0.850	5.922E-05
Male	Juvenile	0.940	-	0.250	0.024	1.213	8.456E-05
Male	Juvenile	2.984	-	0.270	0.021	3.275	2.685E-4
Male	Juvenile	2.290	-	0.272	0.017	2.580	2.061E-4
Female	Juvenile	2.049	-	0.231	0.025	2.305	1.844-e-4
Female	Juvenile	2.221	-	0.181	0.016	2.417	1.9988E-4
Female	Juvenile	0.788	-	0.254	0.020	1.062	7.094E-05
Female	Juvenile	1.058	-	0.256	0.021	1.335	9.524E-05
Female	Juvenile	0.792	-	0.309	0.017	1.118	7.126E-05
Female	Juvenile	2.028	-	0.188	0.021	2.237	1.826E-4
Female	Juvenile	4.495	-	0.242	0.022	4.759	4.045E-4
Female	Juvenile	2.146	-	0.201	0.021	2.368	1.931E-4
Female	Juvenile	0.955	-	0.288	0.019	1.262	8.594E-05
Male	Adult	2.366	-	-	0.061	2.427	2.130E-4
Male	Adult	0.639	-	0.306	0.017	0.962	5.752E-05
Male	Adult	1.516	-	0.292	0.018	1.826	1.364E-4
Male	Adult	0.767	13.274	0.236	0.020	14.298	6.904E-05
Male	Adult	1.523	-	0.275	0.029	1.827	1.371E-4
Male	Adult	1.052	-	0.244	0.023	1.318	9.468E-05
Male	Adult	1.187	-	0.169	0.019	1.374	1.068E-4
Male	Adult	1.183	-	0.307	0.020	1.509	1.065E-4
Male	Adult	0.918	-	-	0.025	0.942	8.259E-05
Male	Adult	0.988	-	0.207	0.019	1.214	8.894E-05
Male	Adult	1.829	-	0.230	0.019	2.078	1.646E-4
Female	Adult	1.637	-	-	0.033	1.671	1.474E-4
Female	Adult	1.777	-	0.161	0.026	1.964	1.599E-4
Female	Adult	1.024	-	-	0.020	1.044	9.212E-05
Female	Adult	2.233	9.859	0.278	0.019	12.389	2.010E-4
Female	Adult	2.291	-	0.223	0.021	2.534	2.062E-4
Female	Adult	1.045	-	0.211	0.019	1.275	9.406E-05
Female	Adult	1.488	-	0.233	0.019	1.740	1.339E-4
Female	Adult	2.803	-	0.179	0.021	3.004	2.523E-4
Female	Adult	0.645	-	-	0.018	0.663	5.8023E-05

THQ (Target Hazard Quotient for inorganic-Arsenic), methyl-mercury (methyl-Hg), Se (Selenium) and Zinc (Zn)), Hazard index (HI) and TR_{As} (Target carcinogenic risk for Arsenic).