

left limit (ppm)	right limit (ppm)	Patient number	metabolite																	mean	SEM
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
1.47	1.477	2-aminoisobutyric acid	3.201	2.910	3.084	2.902	2.871	2.733	2.795	2.679	3.694	2.444	2.274	2.533	2.424	2.421	2.395	2.702	1.819	2.699	0.102
1.237	1.247	hydroxyisovalerate	33.969	15.152	28.041	24.347	17.282	26.709	16.603	14.688	24.414	10.422	8.438	8.953	13.889	15.343	17.526	12.205	7.641	17.390	1.843
1.888	1.947	acetate	22.332	21.307	22.798	23.796	19.554	20.406	19.744	20.677	25.424	18.621	17.624	18.407	19.601	18.786	19.511	19.511	14.551	20.058	0.629
2.224	2.244	acetoacetate	8.235	5.272	6.976	6.572	7.034	4.826	4.834	6.614	4.080	4.141	4.140	4.837	5.321	4.837	5.321	4.599	3.376	5.336	0.316
6.15	6.169	ADP	1.321	1.653	1.382	1.248	1.695	1.523	0.921	1.519	1.542	1.672	0.773	1.877	1.525	1.491	2.223	1.648	1.975	1.539	0.085
8.534	8.546	ADP	1.475	0.933	1.178	1.019	0.832	1.301	0.577	0.714	1.064	0.653	0.449	0.912	0.771	0.874	1.101	0.772	1.063	0.921	0.064
8.264	8.282	ADP+ATP	2.204	1.644	1.851	1.776	1.557	2.309	1.126	1.323	1.760	1.104	0.969	1.620	1.588	1.550	2.467	1.639	1.771	1.666	0.099
1.477	1.496	alanine	10.658	10.665	10.017	10.170	10.415	9.462	10.537	11.286	11.450	11.706	8.940	9.538	9.276	10.460	8.572	11.768	8.398	10.195	0.253
2.79	2.813	aspartate	3.162	2.448	2.651	2.646	2.450	2.690	2.060	2.209	2.840	2.026	2.215	2.615	2.644	2.595	2.435	2.961	2.340	2.529	0.074
2.822	2.841	aspartate	2.231	1.812	2.061	2.052	1.881	2.216	1.600	1.608	2.083	1.553	1.753	1.845	1.919	1.798	1.838	2.211	1.668	1.884	0.052
2.857	2.872	aspartate	1.852	1.561	1.823	1.868	1.605	1.530	1.603	1.408	1.888	1.261	1.420	1.215	1.484	1.505	1.327	1.311	0.937	1.505	0.063
6.12	6.15	ATP	1.891	1.672	1.829	1.537	1.841	1.956	1.186	1.701	2.040	1.602	1.006	1.705	1.483	1.702	2.447	1.757	1.773	1.713	0.078
8.546	8.555	ATP	0.943	0.596	0.889	0.702	0.586	1.010	0.476	0.525	0.845	0.449	0.304	0.722	0.595	0.591	0.756	0.667	0.884	0.686	0.048
8.574	8.588	ATP	1.542	1.074	1.443	1.312	1.357	1.226	0.853	1.349	1.424	1.741	0.549	0.790	0.820	0.892	0.882	0.974	0.632	1.109	0.083
4.495	4.54	ATP+ADP	3.263	5.971	3.803	5.486	5.189	4.267	3.947	5.464	3.967	6.432	6.160	7.625	6.192	5.852	7.075	6.739	6.161	5.494	0.307
4.595	4.634	ATP+ADP	6.054	5.961	3.296	5.732	4.136	4.839	4.146	3.940	3.577	4.439	4.789	5.758	5.741	3.718	5.115	4.804	5.896	4.822	0.224
2.506	2.519	b-alanine	2.079	1.568	1.992	1.479	1.310	1.664	1.143	1.242	1.603	1.136	1.115	1.015	1.130	1.193	1.303	1.278	1.061	1.371	0.077
2.519	2.53	b-alanine	1.995	1.444	1.785	1.321	1.287	1.594	1.209	1.152	1.546	1.089	1.031	1.048	1.029	1.110	1.270	1.195	1.138	1.308	0.068
2.641	2.656	citrate	2.763	2.556	2.479	2.533	2.604	2.556	2.126	2.626	2.643	2.462	2.633	2.190	2.627	2.733	3.056	2.841	2.912	2.609	0.056
2.656	2.667	citrate	2.116	1.879	1.787	1.923	1.988	1.887	1.406	1.946	1.869	1.920	1.953	1.832	2.022	2.071	2.149	2.256	2.256	1.951	0.049
2.976	3.044	creatine/phosphocreatine	13.275	23.763	16.953	24.211	22.994	16.214	21.798	21.086	21.287	22.373	21.312	23.695	22.964	21.976	19.793	20.371	18.089	20.715	0.729
3.922	3.948	creatine/phosphocreatine	4.553	6.724	5.196	6.726	7.199	6.363	10.360	8.524	5.620	8.901	8.993	9.190	8.421	9.178	7.483	9.314	9.605	7.798	0.419
8.451	8.467	formate	2.679	1.159	2.058	1.787	1.296	2.100	1.162	1.075	1.799	0.813	0.668	0.610	1.066	1.108	1.250	0.903	0.596	1.302	0.143
5.925	5.967	GDP/GTP/GMP	6.999	1.961	1.971	2.054	1.720	2.342	1.186	1.657	2.606	1.506	1.074	1.151	1.668	1.376	2.159	1.366	1.499	1.741	0.113
3.411	3.448	glucose	12.671	31.742	15.822	12.774	32.628	24.533	11.263	25.978	18.458	23.955	23.842	35.546	24.521	36.784	31.506	28.121	70.015	20.774	4.006
3.454	3.476	glucose	2.322	1.763	2.264	1.900	1.735	2.247	2.677	2.028	1.924	2.193	1.958	2.344	1.873	2.055	1.615	2.141	2.056	2.005	0.065
3.473	3.5	glucose	2.008	0.978	0.781	0.990	0.816	1.467	0.657	0.821	0.759	0.981	1.267	0.842	1.070	0.658	0.745	1.004	1.112	0.952	0.082
3.516	3.554	glucose	6.204	4.390	5.671	5.043	5.651	5.763	7.441	5.170	5.138	4.771	5.343	6.049	5.360	5.302	4.883	6.148	5.728	5.530	0.169
3.691	3.76	glucose	42.340	28.181	27.890	29.523	24.648	29.061	38.717	31.247	27.645	31.191	26.978	31.699	27.783	33.489	27.388	27.096	26.823	30.100	1.099
3.76	3.792	glucose	10.170	15.770	11.056	12.665	17.368	14.440	18.264	19.015	12.671	21.291	19.505	20.180	17.656	21.543	20.280	18.799	24.235	17.353	0.961
4.634	4.67	glucose	6.447	4.680	3.121	4.366	3.065	3.124	3.750	3.056	2.628	3.161	4.007	3.373	3.855	1.921	3.406	3.795	3.472	3.602	0.237
5.223	5.251	glucose	2.008	0.978	0.781	0.990	0.816	1.467	0.657	0.821	0.759	0.981	1.267	0.842	1.070	0.658	0.745	1.004	1.112	0.952	0.082
2.323	2.368	glutamate	12.875	12.976	12.059	11.254	14.067	12.842	9.793	11.870	12.273	12.935	11.515	15.769	12.850	14.733	11.654	17.701	14.297	13.027	0.453
2.048	2.1	glutamate	17.084	23.615	19.607	25.668	23.218	21.458	20.287	21.814	22.122	22.989	22.164	30.989	25.747	28.676	24.415	29.997	24.797	23.628	0.824
2.433	2.445	glutamine	2.434	1.889	2.304	1.850	1.628	2.087	1.649	1.773	1.953	1.690	1.677	1.369	1.468	1.725	1.575	1.455	1.368	1.759	0.074
2.445	2.47	glutamine	5.708	4.834	5.445	4.425	4.255	5.216	3.635	4.408	4.872	4.755	4.152	3.264	3.467	4.076	4.075	3.506	3.689	4.360	0.172
2.47	2.482	glutamine	2.304	1.629	1.935	1.546	1.439	1.872	1.253	1.423	1.770	1.346	1.285	1.037	1.187	1.292	1.316	1.157	1.073	1.463	0.083
3.631	3.669	glycerol	9.474	9.549	10.041	11.058	9.330	9.781	18.400	13.327	10.499	9.140	11.559	11.946	11.764	13.338	10.613	9.643	10.251	11.160	0.552
3.554	3.565	glycine	3.448	3.080	3.436	2.645	3.630	3.129	3.942	3.275	3.221	3.702	3.653	3.856	3.026	3.685	3.690	3.561	4.332	3.430	0.101
5.37	5.5	glycogen	2.958	3.117	4.745	2.664	2.247	4.546	4.904	3.912	3.466	2.484	4.076	2.715	2.463	3.199	3.352	2.091	2.127	3.299	0.222
3.219	3.23	GPC/PC	4.303	5.851	3.379	4.572	9.526	5.533	3.780	5.740	4.777	9.716	5.014	10.540	7.414	8.266	5.950	13.357	9.901	6.520	0.888
2.932	2.976	GSH	5.286	4.958	4.977	4.935	6.209	6.155	3.702	5.591	5.410	6.096	7.227	4.298	5.199	4.932	7.755	4.406	6.238	5.493	0.251
4.551	4.584	GSH	3.238	3.766	2.410	4.076	3.287	3.475	2.738	3.385	2.566	4.150	4.495	4.078	4.477	3.552	4.642	3.359	4.513	3.659	0.169
2.53	2.547	GSH+GSSG	2.933	2.682	2.906	2.127	2.619	2.806	1.650	2.261	2.726	2.489	2.121	1.957	1.900	2.373	2.764	2.379	2.815	2.442	0.094
2.547	2.559	GSH+GSSG	2.417	2.447	2.228	1.862	2.540	2.609	1.740	2.391	2.212	2.762	2.273	1.864	2.083	2.346	3.115	2.132	3.193	2.365	0.097
2.559	2.581	GSH+GSSG	4.074	3.632	3.854	3.452	4.136	4.176	2.498	3.795	3.806	4.379	4.561	4.208	4.083	3.773	4.853	3.237	5.158	4.066	0.173
2.918	2.932	GSH+GSSG	1.326	1.088	1.364	1.182	1.160	1.273	0.885	0.999	1.175	0.899	1.273	0.744	0.985	0.882	1.267	0.806	0.882	1.065	0.048
2.932	2.976	GSH+GSSG	1.760	1.087	1.439	1.115	1.138	1.476	1.015	1.065	1.453	0.966	0.624	0.665	0.967	1.192	1.653	1.047	1.257	1.172	0.075
6.09	6.12	inosine	0.740	0.513	0.740	0.565	0.565	0.741	0.442	0.485	0.658	0.532	0.304	0.322	0.480	0.588	0.729	0.555	0.574	0.603	0.033
1.005	1.027	isoleucine	4.139	4.412	3.723	4.445	4.158	3.771	4.422	4.277	4.019	4.689	4.849	4.003	4.155	4.395	3.938	4.932	3.705	4.237	0.089
1.113	1.146	lactate	25.791	45.056	29.912	16.979	29.330	32.616	22.267	39.150	28.582	47.896	74.751	21.351	33.789	23.760	25.255	37.778	60.890	35.041	3.650
4.084	4.143	lactate	8.242	14.246	10.010	10.505	11.089	11.187	13.201	14.054	10.643	14.844	22.139	12.845	13.741	12.816					