

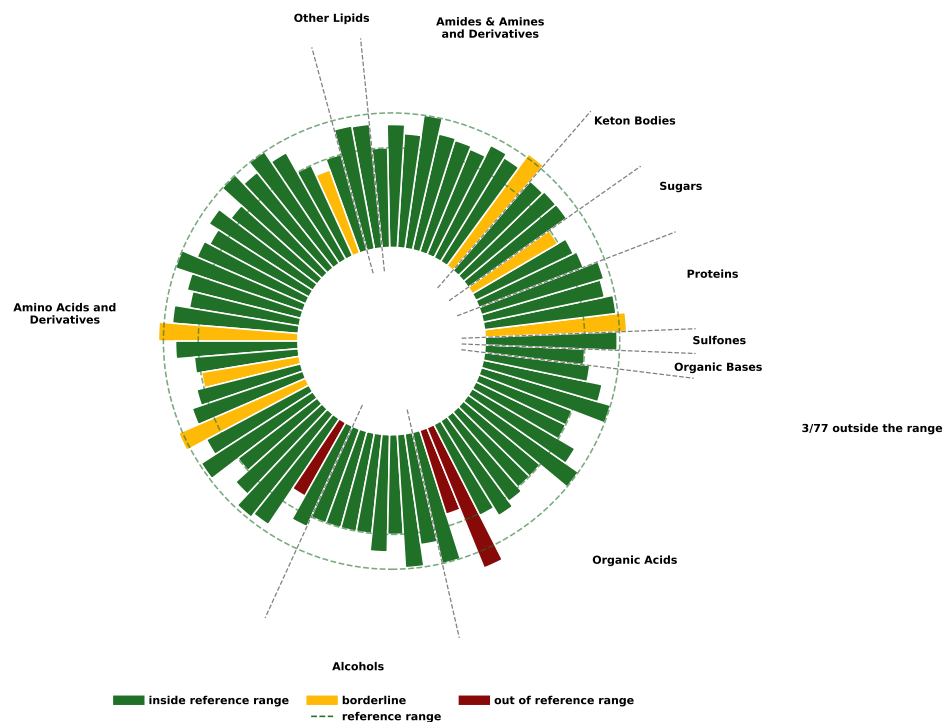
Analytical Report

Sample ID: 1107599424
Material: Serum
Sex: Male

Date of Birth: 1971-04-20
Analysis Software: lifespın Profiler V1.4
Date of Report: 2024-11-27

1 Summary of your Personal Profile

The following overview provides you with a summary of your personal blood scan. It visualizes all metabolites for which a concentration value was determined and the lifespın reference range is available. A detailed list of all 95 measured parameters can be found in Chapter 2.



Exclusion of Liability RESEARCH USE ONLY (RUO): This document contains no medical diagnosis and does not replace the medical diagnosis of a physician.

Metabolites out of reference range: 3/77

Metabolite	Condition
Ascorbic acid	High
Acetic acid	Low
Tyrosine	Low

2 Metabolite Profile

Proteins

Metabolite	Concentration mmol/L	Reference Range mmol/L	Plot
Albumin	1.004	0.736-1.020	
Glycoprotein A	0.335	0.216-0.384	
Glycoprotein B	0.121	0.065-0.156	
Total Protein	0.682	0.564-0.735	

Sugars

Metabolite	Concentration mmol/L	Reference Range mmol/L	Plot
Glucose	4.916	4.129-7.192	
Mannitol	n.d.	n.d.	
Mannose	0.059	0.036-0.130	
myo-Inositol	0.019	<0.070	

Keton Bodies

Metabolite	Concentration mmol/L	Reference Range mmol/L	Plot
Acetone	0.032	0.014-0.093	
3-Hydroxybutyric acid	0.037	0.008-0.287	
Acetoacetic acid	0.019	0.009-0.089	

Amides & Amines and Derivatives














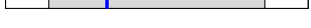



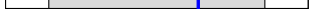






Metabolite	Concentration	Reference Range	Plot
	mmol/L	mmol/L	
Creatinine	0.099	0.036-0.109	
Pantothenic acid	n.d.	n.d.	
Uracil	n.d.	n.d.	
Urea	2.435	1.197-3.892	
Choline	0.015	0.002-0.022	
Creatine	0.018	0.010-0.056	
Dimethylamine	0.003	<0.008	
Dopamine	n.d.	n.d.	
Ethanolamine	0.012	<0.020	
Methylamine	n.d.	<0.002	
Serotonin	n.d.	n.d.	
Spermidine	0.023	<0.049	
Trimethylamine	0.001	<0.002	
Tryptamine	n.d.	<0.053	

Other Lipids






Metabolite	Concentration	Reference Range	Plot
	mmol/L	mmol/L	
Phosphatidylcholine	2.199	1.543-2.838	
Sphingomyelin	0.647	0.200-1.603	





Amino Acids and Derivatives

Metabolite	Concentration	Reference Range	Plot
	mmol/L	mmol/L	
1-Methylhistidine	n.d.	<0.011	
2-Aminoadipic acid	n.d.	<0.109	
3-Methylhistidine	n.d.	<0.016	
4-Aminobenzoic acid	n.d.	n.d.	
Hydroxyproline	n.d.	n.d.	
alpha-Aminobutyric acid	0.033	<0.074	
beta-Aminobutyric acid	n.d.	<0.025	
Alanine	0.443	0.263-0.679	





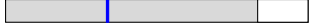




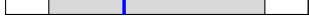





Metabolite	Concentration	Reference Range	Plot
	mmol/L	mmol/L	
beta-Alanine	n.d.	<0.007	
Arginine	0.006	<0.035	
Asparagine	0.021	<0.056	
Aspartic acid	0.009	<0.036	
Betaine	n.d.	n.d.	
Carnitine	0.031	0.011-0.051	
Cystine	0.060	<0.071	
Dimethylglycine	0.008	<0.016	
Glutamic acid	0.050	0.034-0.102	
Glutamine	0.813	0.532-0.933	
Glycine	0.440	0.255-0.469	
Histidine	0.079	0.055-0.101	
Isoleucine	0.047	0.034-0.095	
Leucine	0.144	0.129-0.250	
Lysine	0.052	0.038-0.091	
Levodopa	n.d.	n.d.	
Methionine	0.021	0.010-0.034	
Ornithine	0.063	0.027-0.068	
Phenylalanine	0.019	<0.051	
Phosphoserine	n.d.	n.d.	
Proline	0.203	0.076-0.261	
Sarcosine	n.d.	<0.032	
Serine	0.116	0.075-0.177	
Taurine	0.076	<0.099	
Threonine	0.123	0.048-0.163	
Tyrosine	0.024	0.027-0.063	
Valine	0.241	0.194-0.353	

Alcohols


Metabolite	Concentration	Reference Range	Plot
	mmol/L	mmol/L	
1,2-Propanediol	n.d.	<0.017	
2-Methyl-1,3-propanediol	n.d.	<0.011	
2,3-Butanediol	n.d.	<0.019	
Ethanol	0.016	0.012-0.353	
Glycerol	0.094	<0.186	

Metabolite	Concentration	Reference Range	Plot
	mmol/L	mmol/L	
Isopropanol	n.d.	<0.026	
Methanol	0.066	0.029-0.105	
n-Propanol	0.002	<0.014	
tert-Butanol	n.d.	0.001-0.005	

Organic Acids

Metabolite	Concentration	Reference Range	Plot
	mmol/L	mmol/L	
2-Hydroxyisobutyric acid	0.002	<0.003	
Acetic acid	0.020	0.021-0.129	
Ascorbic acid	0.074	<0.067	
Citric acid	0.080	0.036-0.458	
Dimethylmalonic acid	0.002	<0.005	
Formic acid	0.009	<0.025	
Fumaric acid	n.d.	<0.006	
Glucuronic acid	n.d.	<0.046	
Itaconate	n.d.	<0.005	
Lactic acid	1.336	0.848-2.270	
Maleic acid	n.d.	<0.004	
Methylmalonic acid	n.d.	<0.013	
Propionic acid	n.d.	<0.008	
Pyruvic acid	0.043	0.021-0.076	
Succinic acid	0.005	<0.015	

Organic Bases

Metabolite	Concentration	Reference Range	Plot
	mmol/L	mmol/L	
Adenine	n.d.	n.d.	
Hypoxanthine	n.d.	<0.013	
Inosine	n.d.	n.d.	

Sulfones

Metabolite	Concentration	Reference Range	Plot
	mmol/L	mmol/L	
Dimethylsulfone	0.013	0.005-0.026	<div><div></div><div></div><div></div><div></div><div></div></div>

Free Drugs

Metabolite	Concentration	Reference Range	Plot
	mmol/L	mmol/L	
Free Ceftazidime	n.d.	n.d.	
Free Fluconazole	n.d.	n.d.	
Free Flucytosine	n.d.	n.d.	
Free Fosfomycin	n.d.	n.d.	
Free Piperacillin	n.d.	n.d.	

3 Notes

In the following, an explanation of the technical terms used in this report is given.

Technical Term	Description
Concentration	Concentration of non-protein bound metabolites in blood measured by NMR (Nuclear Magnetic Resonance) technology.
Reference Range	<p>The reference ranges are derived from the 95% concentration range of 3329 healthy donors (1635 female and 1694 male donors) whereby the sample handling took place under very controlled conditions. In case the sex of the patient was provided, the reference ranges are stratified by sex.</p> <p>Some metabolites are either not present or can only be found in very small amounts in blood samples of healthy donors and thus the concentration is usually below the limit of detection. In this case the report shows n.d. instead of a reference range.</p>
Plot	For the presentation of the result, boxes are used. The gray part represents the lifespın reference ranges. The blue line indicates the concentration value of the sample. If no lifespın reference ranges are available, no plot will be displayed.
n.d.	Not detectable - In this case the metabolite is either not present in the sample or below the limit of detection. In the report n.d. is displayed instead of a concentration value.
no result	Due to a technical error no result is generated for this specific metabolite.

*****End of Report*****