

SERVICE DELIVERABLES FOR URINE ANALYSIS

Research Use only

Biomarker marked with * is tentative and subject to change.

Name	Unit	Miscellaneous
Amino acids		
Alanine	mmol/l & ratio to creatinine	2-Hydroxyisobutyrate mmol/l & ratio to creatinine
Glutamine	mmol/l & ratio to creatinine	3-Hydroxyisobutyrate mmol/l & ratio to creatinine
Glycine	mmol/l & ratio to creatinine	3-Hydroxyisovalerate mmol/l & ratio to creatinine
Taurine	mmol/l & ratio to creatinine	4-Deoxyerythronic acid mmol/l & ratio to creatinine
Threonine	mmol/l & ratio to creatinine	4-Deoxythreonate mmol/l & ratio to creatinine
Tryptophan	mmol/l & ratio to creatinine	4-Hydroxyhippurate mmol/l & ratio to creatinine
Branched-chain amino acids		
Isoleucine	mmol/l & ratio to creatinine	Allantoin mmol/l & ratio to creatinine
Leucine	mmol/l & ratio to creatinine	Ethanolamine mmol/l & ratio to creatinine
Valine	mmol/l & ratio to creatinine	Formate mmol/l & ratio to creatinine
Aromatic amino acids		
Tyrosine	mmol/l & ratio to creatinine	Glycolate mmol/l & ratio to creatinine
Dietary metabolites		
2-Furoylglycine	mmol/l & ratio to creatinine	Hypoxanthine mmol/l & ratio to creatinine
Arabinose	mmol/l & ratio to creatinine	Indoxyl Sulfate mmol/l & ratio to creatinine
Ethanol	mmol/l & ratio to creatinine	Pseudouridine mmol/l & ratio to creatinine
HPPHA	mmol/l & ratio to creatinine	Pyroglutamate mmol/l & ratio to creatinine
Mannitol	mmol/l & ratio to creatinine	Urea mmol/l & ratio to creatinine
Proline betaine*	mmol/l & ratio to creatinine	
Propylene glycol*	mmol/l & ratio to creatinine	
Quinic acid	mmol/l & ratio to creatinine	
Sucrose	mmol/l & ratio to creatinine	
Trans-Aconitate	mmol/l & ratio to creatinine	
Xanthosine	mmol/l & ratio to creatinine	
Xylose	mmol/l & ratio to creatinine	
Fluid balance		
Creatinine	mmol/l	
Glycolysis related metabolites		
Citrate	mmol/l & ratio to creatinine	
cis-Aconitate	mmol/l & ratio to creatinine	
Glucose	mmol/l & ratio to creatinine	
Lactate	mmol/l & ratio to creatinine	
Ketone Bodies		
Acetate	mmol/l & ratio to creatinine	
Microbial metabolism		
3-Hydroxyhippurate	mmol/l & ratio to creatinine	
Dimethylamine	mmol/l & ratio to creatinine	
Trimethylamine N-oxide	mmol/l & ratio to creatinine	
Nicotinate and nicotinamide metabolism		
1-Methylnicotinamide	mmol/l & ratio to creatinine	
Trigonelline	mmol/l & ratio to creatinine	
Phenylalanine metabolism		
Hippurate	mmol/l & ratio to creatinine	
Pyrimidine metabolism		
3-Aminoisobutyrate	mmol/l & ratio to creatinine	
Uracil	mmol/l & ratio to creatinine	

Nightingale may be unable to deliver part of the Service Deliverables for some of the Samples due to the fact that individual characteristics and environmental factors, such as lifestyle and diet have a strong impact on urine composition and some biomarkers may not be detectable for all the Samples.