

SERVICE DELIVERABLES FOR URINE ANALYSIS

Research Use only

Biomarker marked with * is tentative and subject to change.

Name	Unit	Miscellaneous
Amino acids		2-Hydroxyisobutyrate mmol/l & ratio to creatinine
Alanine	mmol/l & ratio to creatinine	3-Hydroxyisobutyrate mmol/l & ratio to creatinine
Glutamine	mmol/l & ratio to creatinine	3-Hydroxyisovalerate mmol/l & ratio to creatinine
Glycine	mmol/l & ratio to creatinine	4-Deoxyerythronic acid mmol/l & ratio to creatinine
Taurine	mmol/l & ratio to creatinine	4-Deoxythreonate mmol/l & ratio to creatinine
Threonine	mmol/l & ratio to creatinine	4-Hydroxyhippurate mmol/l & ratio to creatinine
Tryptophan	mmol/l & ratio to creatinine	Allantoin mmol/l & ratio to creatinine
		Ethanolamine mmol/l & ratio to creatinine
Branched-chain amino acids		Formate mmol/l & ratio to creatinine
Isoleucine	mmol/l & ratio to creatinine	Glycolate mmol/l & ratio to creatinine
Leucine	mmol/l & ratio to creatinine	Hypoxanthine mmol/l & ratio to creatinine
Valine	mmol/l & ratio to creatinine	Indoxyl Sulfate mmol/l & ratio to creatinine
Aromatic amino acids		Pseudouridine mmol/l & ratio to creatinine
		Pyroglutamate mmol/l & ratio to creatinine
Tyrosine	mmol/l & ratio to creatinine	Urea mmol/l & ratio to creatinine
Dietary metabolites		
2-Furoylglycine	mmol/l & ratio to creatinine	Nightingale may be unable to deliver part of the Service Deliverables for
Arabinose	mmol/l & ratio to creatinine	some of the Samples due to the fact that individual characteristics and
Ethanol	mmol/l & ratio to creatinine	environmental factors, such as lifestyle and diet have a strong impact on
HPHPA	mmol/l & ratio to creatinine	urine composition and some biomarkers may not be detectable for all the
Mannitol	mmol/l & ratio to creatinine	Samples.
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	