

## SERVICE DELIVERABLES FOR URINE ANALYSIS

### Research Use only

Name	Unit	
<b>Amino acids</b>		
Alanine	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.
Glycine	mmol/l & ratio to creatinine	
Threonine	mmol/l & ratio to creatinine	
Tryptophan	mmol/l & ratio to creatinine	
<b>Branched-chain amino acids</b>		
Leucine	mmol/l & ratio to creatinine	
Valine	mmol/l & ratio to creatinine	
<b>Aromatic amino acids</b>		
Tyrosine	mmol/l & ratio to creatinine	
<b>Dietary metabolites</b>		
Ethanol	mmol/l & ratio to creatinine	
HPPHA	mmol/l & ratio to creatinine	
Xanthosine	mmol/l & ratio to creatinine	
<b>Fluid balance</b>		
Creatinine	mmol/l	
<b>Glycolysis related metabolites</b>		
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	
<b>Ketone Bodies</b>		
Acetate	mmol/l & ratio to creatinine	
<b>Microbial metabolism</b>		
Dimethylamine	mmol/l & ratio to creatinine	
Trimethylamine N-oxide	mmol/l & ratio to creatinine	
<b>Nicotinate and nicotinamide metabolism</b>		
1-Methylnicotinamide	mmol/l & ratio to creatinine	
Trigonelline	mmol/l & ratio to creatinine	
<b>Phenylalanine metabolism</b>		
Hippurate	mmol/l & ratio to creatinine	
<b>Pyrimidine metabolism</b>		
3-Aminoisobutyrate	mmol/l & ratio to creatinine	
Uracil	mmol/l & ratio to creatinine	
<b>Miscellaneous</b>		
2-Hydroxyisobutyrate	mmol/l & ratio to creatinine	
3-Hydroxyisobutyrate	mmol/l & ratio to creatinine	
3-Hydroxyisovalerate	mmol/l & ratio to creatinine	
4-Deoxyerythronic acid	mmol/l & ratio to creatinine	
4-Deoxythreonate	mmol/l & ratio to creatinine	
4-Hydroxyhippurate	mmol/l & ratio to creatinine	
Formate	mmol/l & ratio to creatinine	
Indoxyl Sulfate	mmol/l & ratio to creatinine	
Pseudouridine	mmol/l & ratio to creatinine	
Urea	mmol/l & ratio to creatinine	