

SERVICE DELIVERABLES FOR URINE ANALYSIS

Research Use only

| Name | Unit |
|---|------------------------------|
| Amino acids | |
| Alanine | mmol/l & ratio to creatinine |
| Glycine | mmol/l & ratio to creatinine |
| Threonine | mmol/l & ratio to creatinine |
| Tryptophan | mmol/l & ratio to creatinine |
| Branched-chain amino acids | |
| Leucine | mmol/l & ratio to creatinine |
| Valine | mmol/l & ratio to creatinine |
| Aromatic amino acids | |
| Tyrosine | mmol/l & ratio to creatinine |
| Dietary metabolites | |
| Ethanol | mmol/l & ratio to creatinine |
| HPPHA | mmol/l & ratio to creatinine |
| Xanthosine | 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 | |
| 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 |
| Miscellaneous | |
| 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 |

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.