Effective from 30 November 2018

## SERVICE DELIVERABLES FOR CEREBROSPINAL FLUID ANALYSIS

All listed biomarkers are available for Cerebrospinal Fluid samples. Biomarkers marked with \* are not available for 150  $\mu$ L volume.

Name	Unit
Aminio acids	
Alanine Glutamine Histidine Lysine	mmol/l mmol/l mmol/l mmol/l
Aromatic amino acids	
Phenylalanine Tyrosine	mmol/l mmol/l
Branched-chain amino acids	
Leucine Isoleucine Valine	mmol/l mmol/l mmol/l
Carbohydrates	
Glucose Fructose Mannose Myo-inositol	mmol/l mmol/l mmol/l mmol/l
Energy metabolites	
Citrate Creatine Lactate Pyruvate	mmol/l mmol/l mmol/l
Fluid balance	
Creatinine	mmol/l
Ketone bodies	
3-Hydroxybutyrate Acetate	mmol/l mmol/l
Miscellaneous	
2-Hydroxyisovalerate 2-Hydroxybutyrate 3-Hydroxyisobutyrate 2-Ketoisovalerate 3-Hydroxyisovalerate Ascorbate Formate Urea *	mmol/l mmol/l mmol/l mmol/l mmol/l mmol/l mmol/l

If Nightingale is not able to deliver the Service Deliverables due to inability of Nightingale's Service to analyse the data with more than 20% of metabolic measures missing for a Sample, there will be no charge for the respective Sample.

NG Health Sweden AB