

## Supplementary data on method for analysis of Histidine (His)

### **Method based on article**

Midttun et al (2013), PMID 23232958.

### **Material**

Histidine (purity  $\geq 99\%$ ) was obtained from Sigma Aldrich, St. Louis, USA. Histidine-d3 (98%) was obtained from C/D/N Isotopes, Quebec, Canada.

### **Instrumentation**

Same as in PMID 23232958.

### **Chromatography and detection**

LC-MS/MS; positive-ion multiple reaction monitoring (MRM);  
retention time = 2.0 min.

His precursor ion = 156.1 m/z; product ion = 110.1 m/z. His-d3  
precursor ion = 159.1 m/z; product ion = 113.1 m/z.

### **Method performance**

Linear range: 0.25 - 1000  $\mu\text{mol/L}$ .

Linearity:  $r^2$ : 0.99.

LOD (S/N >5): 4  $\mu\text{mol/L}$ .

Within-day CV: 3-4 %.

Between-day CV: 3-4 %.