

## Supplementary data on method for analysis of Acetoacetate (AcAc)

### **Method based on article**

Midttun et al (2016), PMID 27715010.

### **Material**

Lithium acetoacetate (purity  $\geq 90\%$ ) was obtained from Sigma-Aldrich, St. Louis, MO 63178 USA. MO 63103 USA or 89555 Steinheim Germany.

### **Instrumentation**

Agilent 7010B GC/TQ and Agilent 8890 GC System.

### **Chromatography and detection**

GC-MS/MS; positive-ion multiple reaction monitoring (MRM);  
retention time = 3.02 min.

Acetoacetate precursor ion = 143.0 m/z; product ion = 99.0 m/z.

### **Method performance**

Linear range: 5 - 1000  $\mu\text{mol/L}$ .

Linearity:  $r^2$ : 0.994

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

Within-day CV: 4-6 %.

Between-day CV: 5-7 %.