

Supplemental Table S1**Mouse characteristics after 12 hours of fasting**

Median and range are presented. ‡ Blood samples of two mice were pooled for this analysis. Three pooled plasma samples were analyzed per genotype. ** p < 0.01.

	Wild type	MCAD-KO
Body weight (g)	23.9 (17.8-27.1)	23.0 (20.7-27.1)
Body weight loss upon fasting (%)	12.4 (7.8-19.9)	11.2 (10.0-13.8)
Body weight/liver ratio	0.047 (0.043-0.052)	0.050 (0.041-0.053)
Glucose (mmol/l)	5.8 (4.6-7.8)	5.3 (4.6-6.8)
β-OH-butyrate (mmol/l)‡	2.30 (1.59 – 2.60)	1.35 (1.29 – 1.99)
Free fatty acids (mmol/l)‡	432 (410 – 714)	583 (516 – 598)
C6-carnitine bloodspot (μmol/l)	0.06 (0.04 – 0.07)	0.14 (0.09 – 0.30)**
C8-carnitine bloodspot (μmol /l)	0.07 (0.06 – 0.42)	0.49 (0.46 – 0.56)**
C10-carnitine bloodspot (μmol /l) ‡	0.03 (0.02 – 0.06)	0.07 (0.05 – 0.09)**
C10:1-carnitine bloodspot (μmol /l) ‡	0.02 (0.01 – 0.02)	0.22 (0.10 – 0.26)**
C8/C10 ratio bloodspot	3.2 (2.4 – 6.9)	7.6 (5.3 – 9.3)**