

**Supplementary Table S11:** Standards and internal standards used for LC-MS/MS analyses

<b>Standards</b>	<b>Company<sup>#</sup></b>	<b>Catalogue number #</b>
L-carnitine (C0)	CIL	NSK-B-US-1
O-acetyl-L-carnitine (C2:0)	CIL	NSK-B-US-1
O-propionyl-L-carnitine (C3:0)	CIL	NSK-B-US-1
O-butyryl-L-carnitine (C4:0)	CIL	NSK-B-US-1
O-isovaleryl-L-carnitine (C5:0)	CIL	NSK-B-US-1
O-glutaryl-L-carnitine (C5:0-DC)	CIL	NSK-B-G1-US-1
O-3-hydroxyisovaleryl-L-carnitine (C5:0-OH)	CIL	NSK-B-G1-US-1
O-octanoyl-L-carnitine (C8:0)	CIL	NSK-B-US-1
O-dodecanoyl-L-carnitine (C12:0)	CIL	NSK-B-G1-US-1
O-myristoyl-L-carnitine (C14:0)	CIL	NSK-B-US-1
O-palmitoyl-L-carnitine (C16:0)	CIL	NSK-B-US-1
O-2-DL-hydroxypalmitoyl-L-carnitine (C16:0-OH)	CIL	NSK-B-G1-US-1
O-octadecanoyl-L-carnitine (C18:0)	CIL	NSK-B-G1-US-1
<b>Internal standards</b>	<b>Company<sup>#</sup></b>	<b>Catalogue number #</b>
L-carnitine (C0)	CIL	NSK-B-1
O-acetyl-L-carnitine (C2:0)	CIL	NSK-B-1
O-propionyl-L-carnitine (C3:0)	CIL	NSK-B-1
O-butyryl-L-carnitine (C4:0)	CIL	NSK-B-1
O-isovaleryl-L-carnitine (C5:0)	CIL	NSK-B-1
O-octanoyl-L-carnitine (C8:0)	CIL	NSK-B-1
O-myristoyl-L-carnitine (C14:0)	CIL	NSK-B-1
O-palmitoyl-L-carnitine (C16:0)	CIL	NSK-B-1

<sup>#</sup>CIL = Cambridge Isotope Laboratories