

Supplementary Table S1. Secondary analysis of other newborn screening analytes

NBS analytes (unit/whole blood)	Median and Interquartile Range	Median and Interquartile Range
IRT (µg/L)	20.24 (16.15-29.52)	18.71 (13.96-26.92)
C10 (µmol/L)	0.12 (0.09-0.16)	0.12 (0.08-0.16)
C10:1(µmol/L)	0.09 (0.06-0.13)	0.09 (0.06-0.12)
C12(µmol/L)	0.29 (0.16-0.47)	0.27 (0.17-0.49)
C12:1(µmol/L)	0.16 (0.12-0.45)	0.22 (0.09-0.41)
C14(µmol/L)	0.27 (0.22-0.36)	0.28 (0.21-0.39)
C14:1(µmol/L)	0.16 (0.12-0.24)	0.16 (0.11-0.25)
C16(µmol/L)	3.51 (2.63-4.52)	3.51 (2.79-4.79)
C2(µmol/L)	40.62 (30.84-52.10)	41.60 (31.77-54.09)
C3(µmol/L)	2.05 (1.56-2.79)	2.13 (1.51-3.02)
C4(µmol/L)	0.26 (0.19-0.34)	0.27 (0.20-0.37)
C5(µmol/L)	0.17 (0.12-0.26)	0.16 (0.11-0.26)
C5D(µmol/L)	0.04 (0.03-0.07)	0.05 (0.03-0.07)
C5OH(µmol/L)	0.16 (0.13-0.22)	0.17 (0.13-0.22)
C6(µmol/L)	0.06 (0.05-0.09)	0.06 (0.05-0.09)
C8(µmol/L)	0.08 (0.06-0.11)	0.08 (0.06-0.11)
CAR(µmol/L)	25.50 (18.98-33.61)	27.26 (21.22-34.86)
CIT(µmol/L)	16.61 (12.13-21.42)	16.09 (11.19-21.81)
GLY(µmol/L)	300.34 (242.04-379.79)	284.55 (230.27-370.10)
LEU(µmol/L)	222.93 (177.80-267.14)	226.10 (179.49-273.64)
MET(µmol/L)	27.07 (22.21-32.47)	26.97 (21.48-33.43)
PHE(µmol/L)	54.74 (48.31-65.14)	55.59 (47.80-66.39)
TYR(µmol/L)	82.24 (66.13-107.29)	82.00 (64.07-105.96)
TSH mIU/L	1.30 (0.64-2.33)	1.34 (0.69-2.35)

IRT-immunoreactive trypsinogen C10-decanoylcarnitine, C10:1-decenoylcarnitine, C12-dodecanoylcarnitine, C12:1-dodecenoylcarnitine, C14-tetradecanoylcarnitine, C14:1-tetradecenoylcarnitine, C16-hexadecanoylcarnitine, C2-acetylcarnitine, C3-propionylcarnitine, C4-butyryl/isobutyrylcarnitine, C5-iso/valerylcarnitine, C5D-glutarylcarnitine, C5OH-methylmalonylcarnitine/hydroxyvalerylcarnitine, C6-hexanoylcarnitine, C8-octanoylcarnitine, CAR-free carnitine, CIT-citrulline, LEU-leucine/isoleucine, MET-methionine, PHE-phenylalanine, TYR-tyrosine, TSH-thyroid stimulating hormone

*Analyte values in bold: Statistically significant (CAR p value= 0.018, IRT unadjusted p value=0.045, adjusted p value=0.835)