

Table 2s. List of amino acids and acylcarnitines analyzed in our newborn screening program

Name	Abbreviation	Category	Molecular mass (butylated)	Q3 Mass	Experiment type
Alanine	Ala	AA	146.2	102.1	NL
Valine	Val	AA	174.2	102.1	NL
Leucine/Isoleucine	Xle	AA	188.2	102.1	NL
Methionine	Met	AA	206.2	102.1	NL
Phenylalanine	Phe	AA	228.2	102.1	NL
Tyrosine	Tyr	AA	238.2	102.1	NL
Aspartic Acid	Asp	AA	246.2	102.1	NL
Glutamic Acid	Glu	AA	260.2	102.1	NL
Glycine	Gly	AA	132.1	76.1	MRM
Ornithine	Orn	AA	189.3	70.1	MRM
Arginine	Arg	AA	231.3	70.1	MRM
Citrulline	Cit	AA	232.3	113.3	MRM
Free carnitine	C0	AC	218.3	85.1	PS
Acetylcarnitine	C2	AC	260.3	85.1	PS
Propionylcarnitine	C3	AC	274.3	85.1	PS
Iso-/butyrylcarnitine	C4	AC	288.3	85.1	PS
Tyglylcarnitine	C5:1	AC	300.3	85.1	PS
2-methylbutyryl-/ isovalerylcarnitine	C5	AC	302.3	85.1	PS
3OH butyrylcarnitine	C4OH	AC	304.3	85.1	PS
Hexanoylcarnitine	C6	AC	316.3	85.1	PS
3-OH isovaleryl-/ 2-methyl 3-OH butyrylcarnitine	C5OH	AC	318.3	85.1	PS
3-OH hexanoylcarnitine	C6OH	AC	332.3	85.1	PS
Octenoylcarnitine	C8:1	AC	342.3	85.1	PS
Octanoylcarnitine	C8	AC	344.3	85.1	PS
Malonylcarnitine	C3DC	AC	360.3	85.1	PS
Decadienoylcarnitine	C10:2	AC	368.3	85.1	PS
Decenoylcarnitine	C10:1	AC	370.3	85.1	PS
Decanoylcarnitine	C10	AC	372.3	85.1	PS
Methylmalonylcarnitine	C4DC	AC	374.4	85.1	PS
Glutarylcarnitine	C5DC	AC	388.4	85.1	PS
Dodecenoylcarnitine	C12:1	AC	398.4	85.1	PS
Dodecanoylcarnitine	C12	AC	400.4	85.1	PS
Methylglutarylcarnitine	C6DC	AC	402.4	85.1	PS
3-OH dodecanoylcarnitine	C12OH	AC	416.4	85.1	PS
Tetradecadienoylcarnitine	C14:2	AC	424.4	85.1	PS
Tetradecenoylcarnitine	C14:1	AC	426.4	85.1	PS
Tetradecanoylcarnitine	C14	AC	428.4	85.1	PS
3-OH tetradecanoylcarnitine	C14OH	AC	444.5	85.1	PS

Hexadecenoylcarnitine	C16:1	AC	454.5	85.1	PS
Hexadecanoylcarnitine	C16	AC	456.5	85.1	PS
3-OH hexadecenoylcarnitine	C16:1OH	AC	470.5	85.1	PS
3-OH hexadecanoylcarnitine	C16OH	AC	472.5	85.1	PS
Octadecadienoylcarnitine	C18:2	AC	480.5	85.1	PS
Octadecenoylcarnitine	C18:1	AC	482.5	85.1	PS
Octadecanoylcarnitine	C18	AC	484.5	85.1	PS
3-OH octadecenoylcarnitine	C18:1OH	AC	498.5	85.1	PS
3-OH octadecanoylcarnitine	C18OH	AC	500.5	85.1	PS