

Table 1s: Confirmatory tests implemented for disorders diagnosed in our laboratory and reported in Table 1

	(mmol/mol creatinine, upper-cut off value)
MCADD Patient 1	Adipic acid (850, 32) Suberic acid (1485, 20)
MCADD Patient 2	Hexanoylglycine (3, nd)
MCADD Patient 3	Adipic acid (380, 32) Suberic acid (1220, 20) Sebacic acid (82, 57) Hexanoylglycine (4, nd)
MCADD Patient 4	Adipic acid (36, 32) Suberic acid (63, 20) Sebacic acid (87, 57) Hexanoylglycine (1, nd) Suberylglycine (1, nd)
MCADD Patient 5	Suberic acid (45, 20) Sebacic acid (75, 57) Hexanoylglycine (1, nd) Suberylglycine (1, nd)
MMACbIC Patient 1	Methylmalonic acid (137, 5)
MMAMut(0) Patient 2	Methylmalonic acid (7115, 5) Methylcitric acid (127, nd) Lactic acid (824, 25) 3-OH-Butiric acid (2120, 9) Acetoacetic acid (815, 1.5)
MMAMut(0) Patient 3	Methylmalonic acid (5477, 5) Methylcitric acid (69, nd) 3-OH-Propionic acid (794, 19)
PA Patient 1	3-OH-Propionic acid (335, 19) Methylcitric acid (51, nd) Tiglylglycine (10, nd) Propionylglycine (10, nd) 2-Methylbutyrylglycine (3, 2)
IVA Patient 1	Isovalerylglycine (2326, nd) 3-Hydroxyisovaleric Acid (234, 18)
IBDHD Patient 1	Isobutyrylglycine (3, nd)
BKTD Patient 1	Tiglylglycine (87, nd) 2-methyl-3-OH butyric acid (441, 2)
SBCADD Patient 1	Ethylhydracrylic acid (30, 12) 2-Methylbutyrylglycine (8, 2)
3-Methylcrotonyl-CoA Carboxylase 2 Deficiency (MCC2) Patient 1	3-OH-Isovaleric acid (70, 1.3) 3-Methylcrotonylglycine (441, nd)