

Reference Material: Second-tier Maple Syrup Urine Disease and Phenylketonuria by LC-MS/MS

Product ID: MSUD/PKUQC-13

Expiration Date: February 2026

Analysis Method: LC-MS/MS

Units:  $\mu\text{mol/L}$  blood

Material Storage:  $-20^{\circ}\text{C} \pm 10^{\circ}\text{C}$

Lot	Analyte	Enrichment	Mean Value	95% LL	95% UL
A2413	Alloisoleucine (ALE2)	0	0.9	0.0	3.3
A2413	Isoleucine (ILE2)	0	17.0	7.4	26.6
A2413	Leucine (LEU2)	0	42.6	31.0	54.2
A2413	Phenylalanine (PHE2)	0	24.3	15.6	33.0
A2413	Tyrosine (TYR2)	0	25.2	20.5	29.9
A2413	Valine (VAL2)	0	68.6	47.8	89.4
B2413	Alloisoleucine (ALE2)	100	103.7	69.2	138.2
B2413	Isoleucine (ILE2)	100	122.0	76.6	167.4
B2413	Leucine (LEU2)	100	139.7	108.0	171.4
B2413	Phenylalanine (PHE2)	100	123.6	102.1	145.1
B2413	Tyrosine (TYR2)	100	105.8	88.7	122.9
B2413	Valine (VAL2)	100	168.5	129.8	207.2
C2413	Alloisoleucine (ALE2)	200	213.8	146.8	280.8
C2413	Isoleucine (ILE2)	200	234.8	176.4	293.2
C2413	Leucine (LEU2)	200	238.0	188.3	287.7
C2413	Phenylalanine (PHE2)	200	231.3	192.7	269.9
C2413	Tyrosine (TYR2)	200	192.9	164.1	221.7
C2413	Valine (VAL2)	200	265.8	179.9	351.7
D2413	Alloisoleucine (ALE2)	400	381.1	180.9	581.3
D2413	Isoleucine (ILE2)	400	433.1	163.9	702.3
D2413	Leucine (LEU2)	400	392.9	220.1	565.7
D2413	Phenylalanine (PHE2)	400	398.7	217.3	580.1
D2413	Tyrosine (TYR2)	400	330.5	180.0	481.0
D2413	Valine (VAL2)	400	415.0	227.3	602.7
E2413	Alloisoleucine (ALE2)	800	837.3	638.6	1036.0
E2413	Isoleucine (ILE2)	800	901.0	673.3	1128.7
E2413	Leucine (LEU2)	800	817.2	688.8	945.6
E2413	Phenylalanine (PHE2)	800	856.1	723.2	989.0
E2413	Tyrosine (TYR2)	800	708.7	624.7	792.7
E2413	Valine (VAL2)	800	835.6	680.2	991.0