

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

Product ID: MSUD/PKUQC-13

Expiration Date: February 2025

Analysis Method: LC-MS/MS

Material Storage: -20°C ± 10°C

Units: µmol/L blood

Lot	Analyte	Enrichment	Mean Value	95% LL	95% UL
A2313	Alloisoleucine (ALE2)	0	0.6	0.0	1.1
A2313	Isoleucine (ILE2)	0	15.1	12.9	17.3
A2313	Leucine (LEU2)	0	44.5	27.2	61.9
A2313	Phenylalanine (PHE2)	0	28.4	24.9	31.8
A2313	Tyrosine (TYR2)	0	22.7	20.6	24.9
A2313	Valine (VAL2)	0	54.1	48.9	59.2
B2313	Alloisoleucine (ALE2)	100	70.6	61.0	80.2
B2313	Isoleucine (ILE2)	100	83.0	70.6	95.5
B2313	Leucine (LEU2)	100	120.7	83.0	158.5
B2313	Phenylalanine (PHE2)	100	114.0	98.9	129.1
B2313	Tyrosine (TYR2)	100	90.7	76.7	104.7
B2313	Valine (VAL2)	100	120.3	101.4	139.3
C2313	Alloisoleucine (ALE2)	200	143.9	129.9	158.0
C2313	Isoleucine (ILE2)	200	152.2	137.7	166.8
C2313	Leucine (LEU2)	200	195.4	160.9	229.9
C2313	Phenylalanine (PHE2)	200	200.3	174.0	226.6
C2313	Tyrosine (TYR2)	200	159.9	144.4	175.5
C2313	Valine (VAL2)	200	191.3	172.8	209.8
D2313	Alloisoleucine (ALE2)	400	283.2	248.6	317.9
D2313	Isoleucine (ILE2)	400	295.2	260.2	330.3
D2313	Leucine (LEU2)	400	346.0	293.9	398.1
D2313	Phenylalanine (PHE2)	400	372.9	333.1	412.7
D2313	Tyrosine (TYR2)	400	296.1	263.3	329.0
D2313	Valine (VAL2)	400	329.4	286.3	372.5
E2313	Alloisoleucine (ALE2)	800	571.9	492.7	651.1
E2313	Isoleucine (ILE2)	800	575.4	517.4	633.3
E2313	Leucine (LEU2)	800	659.8	561.6	758.1
E2313	Phenylalanine (PHE2)	800	705.6	610.9	800.3
E2313	Tyrosine (TYR2)	800	576.4	508.3	644.5
E2313	Valine (VAL2)	800	598.3	494.9	701.7