

Second-tier Maple Syrup Urine Disease and Phenylketonuria by LC-MS/MS (MSUD-PKUQC)

Set 2 - June 2021

Analysis Method: LC-MS/MS

Expiration Date: February 2022

Material Storage: -20°C ± 10°C

Units: µmol/L blood

Lot	Analyte	Enrichment	Mean Value	95% LL	95% UL
A2013	Alloisoleucine (ALE2)	0	0.7	0.1	1.2
A2013	Isoleucine (ILE2)	0	17.9	14.2	21.6
A2013	Leucine (LEU2)	0	47.2	42.4	52.0
A2013	Phenylalanine (PHE2)	0	31.4	27.5	35.3
A2013	Tyrosine (TYR2)	0	27.2	23.5	31.0
A2013	Valine (VAL2)	0	53.8	46.4	61.1
B2013	Alloisoleucine (ALE2)	50	39.9	34.2	45.6
B2013	Isoleucine (ILE2)	100	90.0	75.8	104.1
B2013	Leucine (LEU2)	100	125.5	109.8	141.2
B2013	Phenylalanine (PHE2)	100	119.8	103.6	136.0
B2013	Tyrosine (TYR2)	100	110.1	95.5	124.7
B2013	Valine (VAL2)	100	135.3	117.2	153.5
C2013	Alloisoleucine (ALE2)	100	76.8	65.8	87.9
C2013	Isoleucine (ILE2)	200	157.2	134.8	179.6
C2013	Leucine (LEU2)	200	199.9	177.2	222.6
C2013	Phenylalanine (PHE2)	200	199.6	177.8	221.3
C2013	Tyrosine (TYR2)	200	186.6	166.3	207.0
C2013	Valine (VAL2)	200	212.2	183.8	240.6
D2013	Alloisoleucine (ALE2)	200	155.7	133.8	177.6
D2013	Isoleucine (ILE2)	400	301.1	261.9	340.3
D2013	Leucine (LEU2)	400	349.0	311.3	386.6
D2013	Phenylalanine (PHE2)	400	372.2	330.7	413.7
D2013	Tyrosine (TYR2)	400	353.2	313.6	392.9
D2013	Valine (VAL2)	400	371.1	319.6	422.6
E2013	Alloisoleucine (ALE2)	400	316.1	278.1	354.1
E2013	Isoleucine (ILE2)	800	590.7	510.0	671.3
E2013	Leucine (LEU2)	800	652.4	578.8	726.0

<b>Lot</b>	<b>Analyte</b>	<b>Enrichment</b>	<b>Mean Value</b>	<b>95% LL</b>	<b>95% UL</b>
E2013	Phenylalanine (PHE2)	800	719.7	631.0	808.5
E2013	Tyrosine (TYR2)	800	696.7	607.3	786.1
E2013	Valine (VAL2)	800	699.8	609.6	790.0

---