

Reference Material: Second-tier Methylmalonic/Propionic Acidemia and Homocystinuria by LC-MS/MS

Product ID: MMA/HCYQC-14

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
A2314	Malonic Acid (MA2)	0	2.99	1.4	4.6
A2314	Methylmalonic Acid (MMA2)	2	1.61	0.0	3.5
A2314	Ethylmalonic Acid (EMA2)	2	2.18	1.1	3.3
A2314	2-Methylcitric Acid (MCA2)	1	0.62	0.5	0.8
A2314	Total Homocysteine (tHCY2)	0	3.6	1.8	5.4
B2314	Malonic Acid (MA2)	5	6.83	5.2	8.4
B2314	Methylmalonic Acid (MMA2)	5	3.64	0.6	6.7
B2314	Ethylmalonic Acid (EMA2)	5	4.03	1.4	6.7
B2314	2-Methylcitric Acid (MCA2)	2.5	1.36	1.0	1.7
B2314	Total Homocysteine (tHCY2)	10	7.11	3.0	11.2
C2314	Malonic Acid (MA2)	20	16.73	13.5	20.0
C2314	Methylmalonic Acid (MMA2)	20	14.25	4.4	24.1
C2314	Ethylmalonic Acid (EMA2)	2	13.03	6.9	19.1
C2314	2-Methylcitric Acid (MCA2)	10	5.79	4.5	7.1
C2314	Total Homocysteine (tHCY2)	50	19.67	11.0	28.4
D2314	Malonic Acid (MA2)	50	31.89	26.1	37.7
D2314	Methylmalonic Acid (MMA2)	50	37.69	13.0	62.4
D2314	Ethylmalonic Acid (EMA2)	50	32.65	11.0	54.3
D2314	2-Methylcitric Acid (MCA2)	25	14.29	10.2	18.4
D2314	Total Homocysteine (tHCY2)	100	35.9	20.0	51.7