

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

Product ID: MMA/HCYQC-14

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
A2414	Malonic Acid (MA2)	0	7.05	3.5	10.6
A2414	Methylmalonic Acid (MMA2)	2	1.54	0.7	2.4
A2414	Ethylmalonic Acid (EMA2)	2	1.55	1.4	4.7
A2414	2-Methylcitric Acid (MCA2)	1	0.52	0.4	0.6
A2414	Total Homocysteine (tHCY2)	0	2.32	1.1	3.5
B2414	Malonic Acid (MA2)	5	8.7	3.9	13.6
B2414	Methylmalonic Acid (MMA2)	5	3.43	2.2	4.7
B2414	Ethylmalonic Acid (EMA2)	5	3.38	2.9	3.8
B2414	2-Methylcitric Acid (MCA2)	2.5	1.19	0.9	1.5
B2414	Total Homocysteine (tHCY2)	10	4.04	1.4	6.7
C2414	Malonic Acid (MA2)	20	19.1	13.0	25.3
C2414	Methylmalonic Acid (MMA2)	20	12.76	10.6	14.9
C2414	Ethylmalonic Acid (EMA2)	20	13.34	11.7	15.0
C2414	2-Methylcitric Acid (MCA2)	10	4.67	3.4	5.9
C2414	Total Homocysteine (tHCY2)	50	12.04	5.1	19.0
D2414	Malonic Acid (MA2)	50	36.87	26.9	46.9
D2414	Methylmalonic Acid (MMA2)	50	30.94	24.6	37.3
D2414	Ethylmalonic Acid (EMA2)	50	32.97	26.9	39.1
D2414	2-Methylcitric Acid (MCA2)	25	11.46	8.6	14.4
D2414	Total Homocysteine (tHCY2)	100	22.6	10.2	35.1