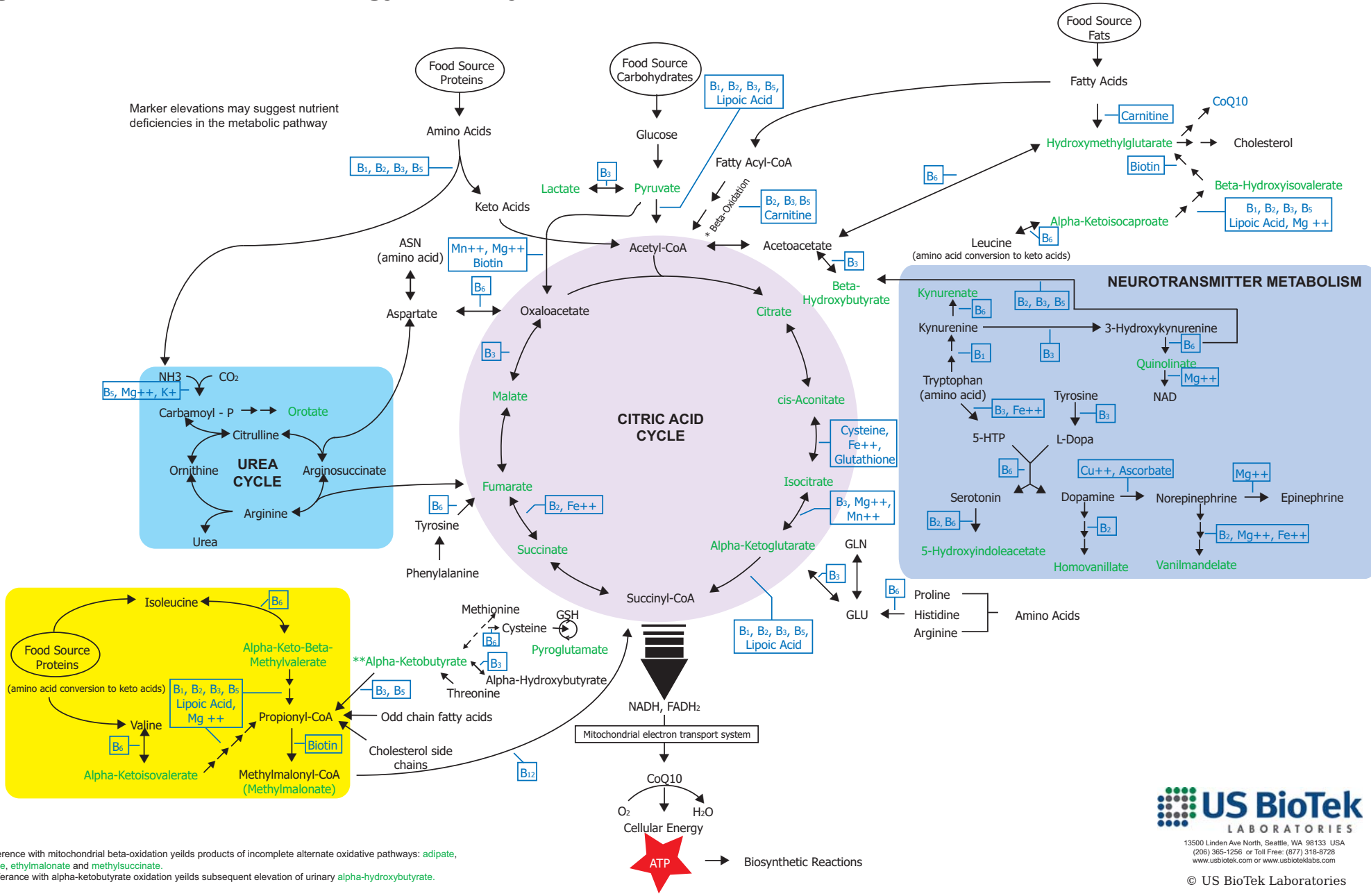


Organic Acids In Central Energy Pathways

Marker elevations may suggest nutrient deficiencies in the metabolic pathway



* Interference with mitochondrial beta-oxidation yields products of incomplete alternate oxidative pathways: adipate, suberate, ethylmalonate and methylsuccinate.
 ** Interference with alpha-ketobutyrate oxidation yields subsequent elevation of urinary alpha-hydroxybutyrate.



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