



Figure S5: Deuterium labels from ²H-lactate enter Hep G2 and H460 mitochondria. (A) Lactate can be exchanged with pyruvate in the cytosol or lactate can be transported into mitochondria. We sought to distinguish between these two possibilities by labeling cells with 2-²H lactate. We then used LC/MS to localize 2-²H lactate to mitochondria. (B-C) Mass spectra from mitochondria purified from cells cultured for 45 minutes in 2-²H lactate enriched media. (B) Purified mitochondria from Hep G2, a human liver cancer cell line. (C) Purified mitochondria from H460, a human lung cancer cell line. These results support a pool of transported lactate in mitochondria.

