Figure S4: KCN titration experiments of cytochrome c oxidase activity.

To assess if cytochrome c oxidase (COX) responds differently to cyanide inhibition in cardiac mitochondria from fructose-fed rats as compared to healthy rats, we performed KCN titration experiments of cytochrome c oxidase activity in permeabilized cardiac fibers energized with complex IV substrates ascorbate (2 mM)/tetramethylphenylenediamine dihydrochloride (TMPD; 0.5 mM) to establish the concentration-dependent inhibition of complex IV. KCN induced a similar concentration-dependent inhibition of complex IV activity in fibers from fructose-fed rats as compared to healthy rats. The inhibition constant $K_i$ of COX for cyanide was not affected by the dietary intervention (N=6).