



Figure 7: Mitochondrial membrane potential for the positive and negative controls established using Antimycin A and Tiron, respectively.

Tiron (Fluka, Steinheim, Germany), a superoxide mimetic agent, was used to lower superoxide in the mitochondria. Tiron solution (50mM) was added to the cells before the addition of mitoSOX and DiIC₁(5) stains. Tiron at 50 mM resulted in significant reduction in MitoSOX geometric MFI (37 ± 6 , $n = 6$) compared to controls (213 ± 27 , $n = 6$, $P < 0.0005$) (Figure 6). At this concentration, Tiron did not significantly alter mitochondrial membrane potential as represented by DiIC₁(5) geometric MFI (control: 136 ± 49 and Tiron: 115 ± 34 , $n = 6$ each, *ns*) (Figure 7).