

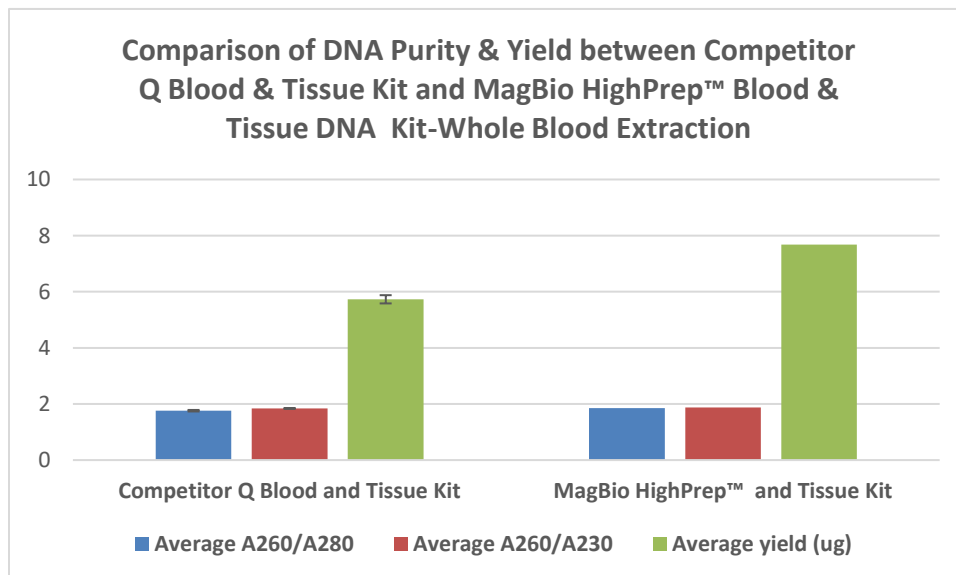
# Comparison of Genomic DNA Quality and Yield

## MagBio HighPrep™ Blood-Tissue DNA Kit Vs Competitor Q

MagBio's HighPrep™ Blood-Tissue DNA Kit is a high-quality genomic DNA isolation and purification kit for a variety of sample sources including fresh or frozen whole blood, buffy coat, saliva, fresh or frozen animal tissues and cells. Comparison of this kit with one of the well known commercially available kit (Competitor Q Blood & Tissue kit) shows MagBio's HighPrep™ Blood-Tissue DNA Kit superiority in DNA recovery from blood.



**Figure 1. DNA integrity:** Genomic DNA was extracted from 200 µl of whole blood using MagBio HighPrep™ Blood-Tissue DNA Kit and Competitor Q Blood & Tissue kit. Following extraction, 10 µl from 100 and 200 µl eluates of purified genomic DNA was analyzed by gel electrophoresis on a 1% agarose gel. Figure 1 shows that genomic DNA recovered by both kits was intact; there was no DNA degradation.



**Figure 2. DNA Purity and Yield:** Purity and concentration of DNA extracted by both kits was assessed using BioDrop spectrophotometer. The measurements were determined in triplicate. The ratio of absorbance at 260 nm and 280 nm was used to assess protein contamination while the ratio of absorbance at 260 nm and 230 nm was used to assess the presence of contaminants. Both kits' spectrophotometric measurements met the criteria for high quality DNA. In terms of determined recovery, MagBio's kit had a slightly better DNA yield compared to Competitor Q kit.