Samples A-L

25 mg tissue from each fragment

100 µl DNA extract

5 µl DNA extract used for qPCR of *P. falciparum* (18S)

1 µl DNA extract used for qPCR of human and mouse liver cells (PTGER2)

Number of *P. falciparum* parasites (haploid) per 25 mg sample = \( X = \text{expt. value} \times 20 \)

Number of human hepatocytes (diploid) per 25 mg sample = \( Y = \frac{\text{expt. value}}{2} \times 100 \)

Total number of *P. falciparum* parasites per \( 10^6 \) human hepatocytes = \( \left( \frac{X_A}{Y_A} + \frac{X_B}{Y_B} + \frac{X_C}{Y_C} + \frac{X_D}{Y_D} + \ldots + \frac{X_K}{Y_K} + \frac{X_L}{Y_L} \right) \times 10^6 \)