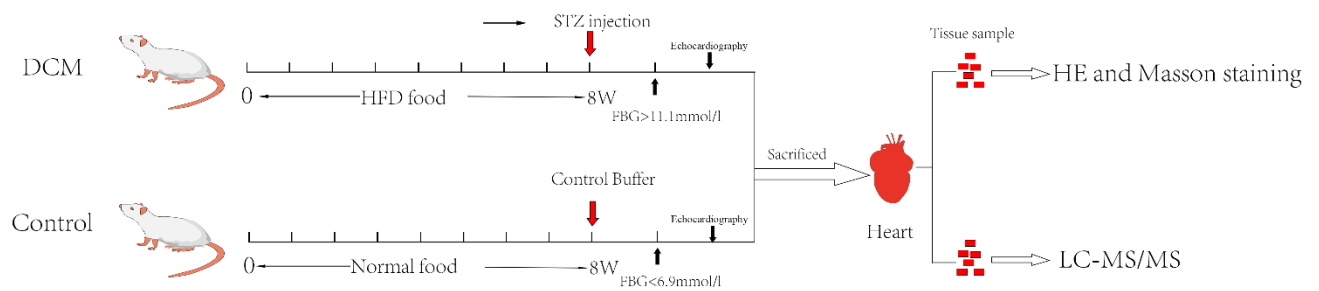# Supplementary data and figures

FIGURE 1
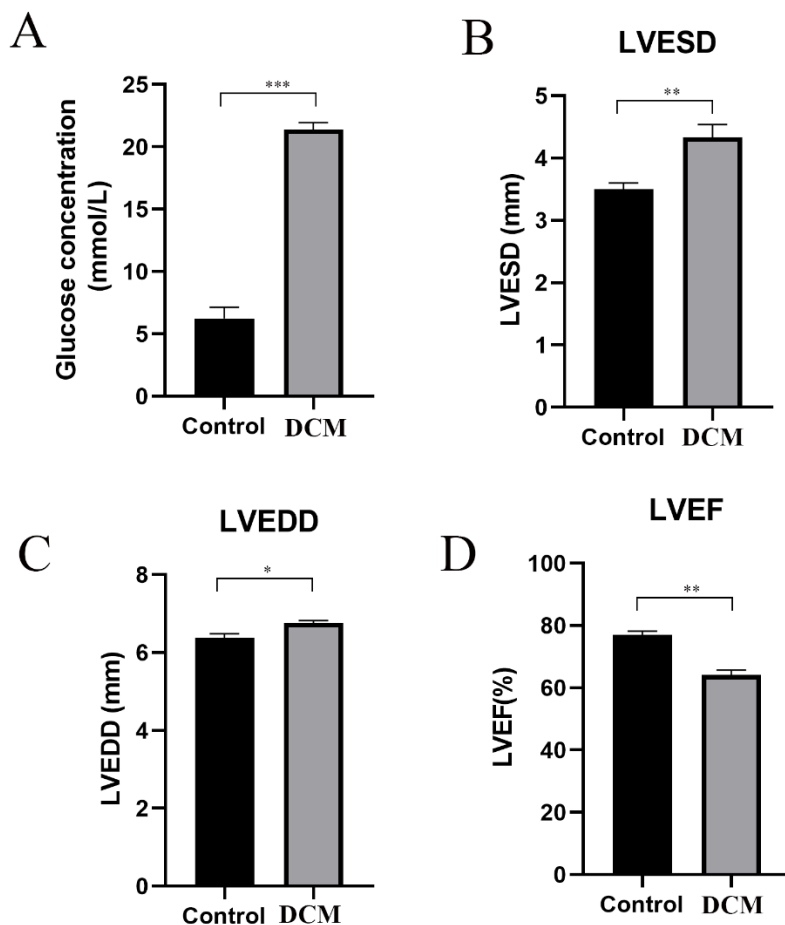The work flow used in this study (n=3 rat per group).

FIGURE 2
Establishment of diabetic cardiomyopathy rat modes. **(A)** The results of fasting blood glucose. **(B-D)** Cardiac function were evaluated by echocardiography (n=3 rat per group, *P < 0.05). LVESD = left ventricular end-systolic diameter; LVEDD = left ventricular end-diastolic diameter; LVEF = left ventricular ejection fraction. ** p<0.01
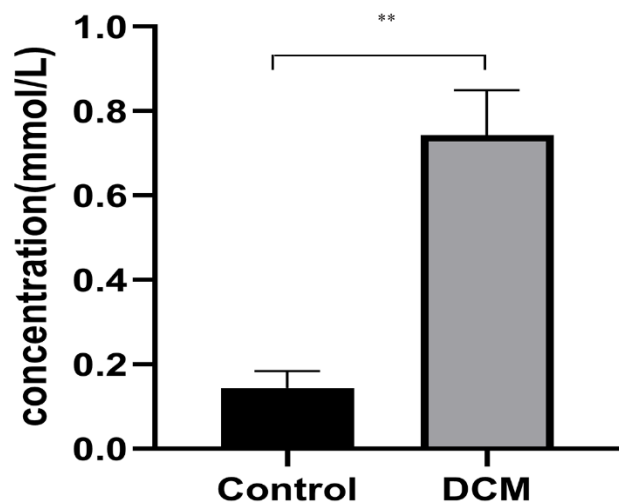
FIGURE 3

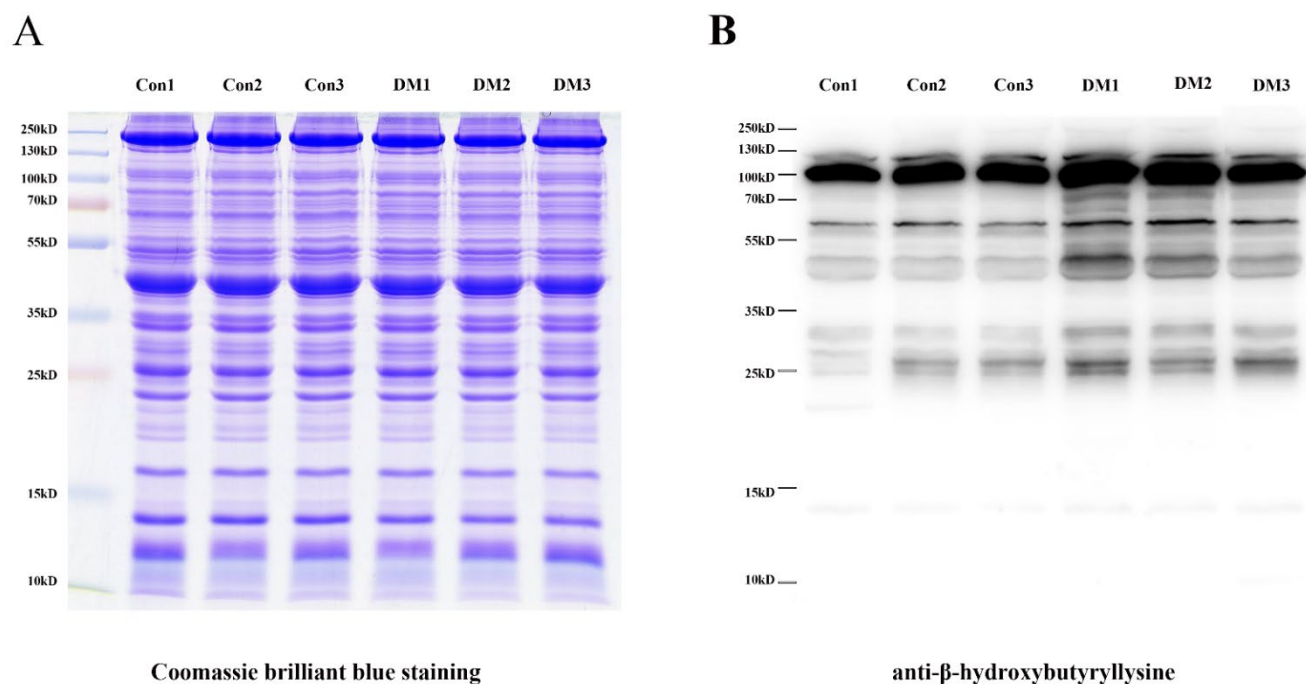The concentration of BHB in the blood of control and DCM rats. n=3 rat per group. ** p<0.01

FIGURE 4

Detection of lysine β-hydroxybutyrylation in heart tissue of control and DM rats. **(A)** Coomassie brilliant blue staining **(B)** Western blot analysis of heart tissue lysates by anti-β-hydroxybutyryllysine antibody.
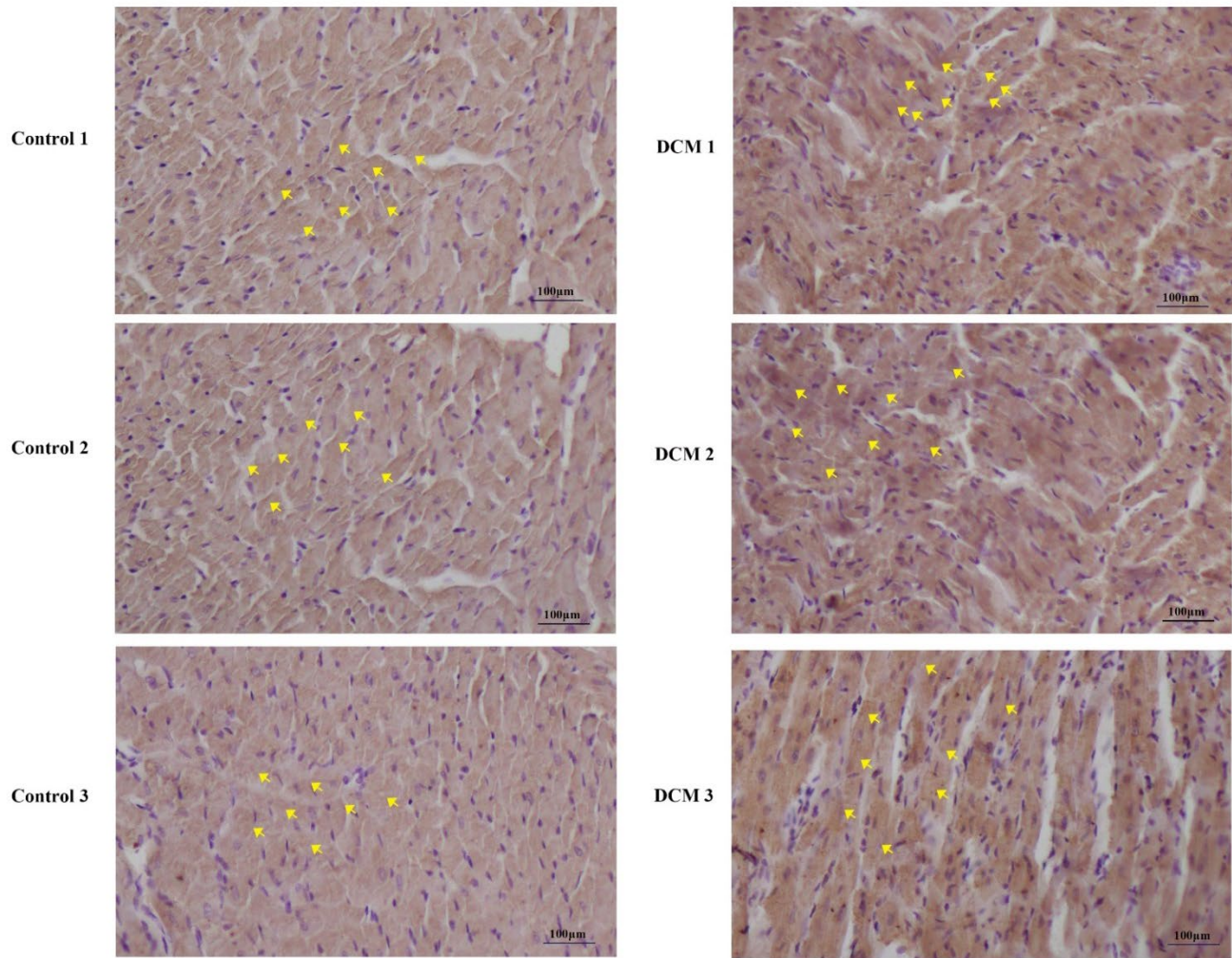
FIGURE 5
The β-hydroxybutyryl lysine expression in the control and DCM groups (Yellow arrows). Scale bar=100μm. n=3 rat per group, scale bar =100 μm
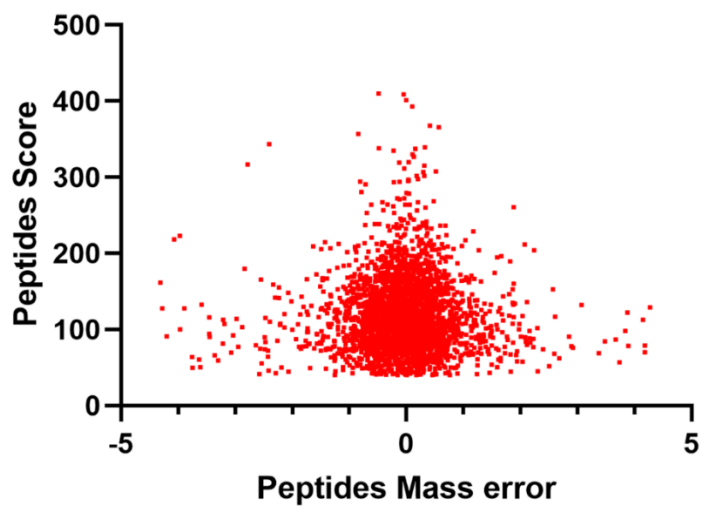

FIGURE 6
Distributions of mass errors for all the β-hydroxybutyryl peptides.