

# DNA ISOLATION - INVITROGEN EASY DNA KIT

## I. Samples:

## II. Tissue Preparation

- A. Tissue Weight (use between 150 to 250 mg)
  
- B. Pulverized tissue frozen in liquid Nitrogen with a motor and pestle
- C. Transferred tissue to a 1.5 microcentrifuge tube

## III. Isolation of DNA

- A. Added 350  $\mu$ L of Solution A to pulverized tissue
- B. Vortexed in 1 second intervals until evenly dispersed
- C. Incubated at 65<sup>0</sup> C for 10 minutes
- D. Added 150  $\mu$ L of Solution B
- E. Vortexed vigorously until the precipitate moves freely in the tube and the sample was uniformly viscous (10 seconds to 1 minute)
- F. Added 500  $\mu$ L of chloroform
- G. Vortexed until the viscosity decreased and the mixture was homogenous (10 seconds to 1 minute)
- H. Centrifuged at maximum speed for 15 minutes at 4<sup>0</sup> C - Jouan Centrifuge 17 min @ 13,000 rpm
- I. Upper phase transferred into a fresh 1.5 mL microcentrifuge tube

## IV. DNA Precipitation

- A. Added 1 mL of 100% EtOH
- B. Mix by inversion - until completely mixed
- C. Incubate on ice for 30 minutes or store at -20<sup>0</sup> C
- D. Centrifuged at maximum speed for 15 minutes at 4<sup>0</sup> C
- E. Poured off EtOH



