DNA Extraction with Lucigen QuickExtractTM Solution 1.0

1. Preparations

1. Thaw the Lucigen QuickExtract™ Solution 1.0 at RT. (stored at -20°C)
2. Prepare SARSTEDT PCR strips and flat SARSTEDT Lids.
3. Place Grinding Balls in the PCR strips with tweezers.
4. Pipette 50 µL Extraction Solution into the PCR strips
5. Transfer flies into the wells by using a brush and make sure the flies are in the extraction solution (and not on the lid or the wall of the well)
6. Preheat 2 heat blocks to 65°C and 98°C

2. DNA Extraction:

1. Homogenize in the TissueLyser for 15 seconds, at 30/sec, spin down with the Mini Table Centrifuge
2. Place in the heat block for 10 minutes at 65°C, 300rpm
3. Vortex for 15 seconds, spin down with the Mini Table Centrifuge
4. Place in the heat block for 2 minutes at 98°C, 300rpm
5. Spin down with the Mini Table Centrifuge
6. Transfer the solution to a new PCR tube. Try to not transfer any fly debris.
7. Caution! In this state the extracted DNA is stable for ~ 1 week at -20°C.

3. Measure DNA concentration with Qubit:

1. Measure DNA Concentration with Qubit™ 1x dsDNA HS Assay Kit. (stored at +4°C)
2. Use special Qubit™ assay tubes
3. Use 1µL extracted DNA solution + 199µL Qubit™ 1X dsDNA HS Working Solution
4. Vortex the tubes for 2 - 3 seconds
5. Incubate the tubes for 2 minutes at room temperature in the dark

4. In Preparation of the following PCR, dilute the extracted DNA:

1. Prepare 20µL each, with a concentration of 1ng/µL
2. Use Nuclease free water