Single fly genomic DNA preparation

This is a short protocol for the isolation of genomic DNA from a single fly for PCR applications. Of the DNA yield, 1-5µl were used to perform PCR reactions.

Squishing Buffer (SB):

10mM	Tris-HCl pH8.2
1mM	EDTA
25mM	NaCl
200µg/ml	Proteinase K (store 4mg/ml stock solution in –80˚C and add 1/20 to the SB just before use)

1. Add Proteinase K to the Squishing Buffer (SB) freshly from the stock.
2. Place each single fly in wells of a 96 well plate and mash the fly for 5-10 seconds with the tips of a multi-pipette containing 50µl of SB each, without expelling any liquid (sufficient liquid escapes from the tip). Expel the remaining SB.
3. Incubate at 37˚C for 30 minutes.
4. Inactivate the Proteinase K by heating to 95˚C for 5 minutes. It is convenient to use the PCR machine.
5. Add 50µl of TE or H_2O. Use 1µl for PLP-PCR (~200bp), or 2-5µl for normal PCR (~1kb).