MINIPLEX STR AMPLIFICATION WORKSHEET

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Date: **Project Name:**

Reaction Mix:
- 200 µL dNTPs
- 250 µL 10X Buffer
- 50 µL ddH2O

Vortex mixture and spin down

Prepare Primers:
- 5 µL of 100 µM Forward Primer
- 5 µL of 100 µM Reverse Primer
- 40 µL of ddH2O

Prepare a separate primer mix for each individual loci

****If 200 µM Primers, use 2.5 µL of primers and adjust ddH2O to keep final volume at 50 µL.****

Master Mix:

Mini 2			***Mini 4***			***Big Mini***		
	Per Sample (µL)	_____*Samples*		*Per Sample (µL)*	_____*Samples*		*Per Sample (µL)*	_____*Samples*
D5	1.0		vWA	1.0		TH01	0.4	
D8	1.0		D18	1.0		CSF	0.4	
D16	0.5		D13	1.4		TPOX	0.5	
Reaction Mix	5.0		Reaction Mix	5.0		FGA	0.6	
BSA	1.0		BSA	1.0		D21	0.6	
Taq	0.4		Taq	0.4		D7	0.8	
ddH2O	15.1		ddH2O	14.2		Reaction Mix	5.0	
Total	24.0 µL		*Total*	24.0 µL		BSA	1.0	
						Taq	0.4	
						ddH2O	14.3	
						Total	24.0 µL	

****Remember to add 2 to the number of samples for pipetting error****

~Pipet 24 uL of each master mix into prepared 0.2 uL tubes for each sample.

~Add 1 uL of sample DNA to each sample tube (add water to reagent blank and DNA standard to positive control).

~PCR Cycling Conditions:

Step 1:	10 minutes at 94oC	*Step 2:*	1 minute at 94oC	*Step 3:*	45 minutes at 60oC
	warm-up		1 minute at 55oC		Forever at 25oC
			1 minute at 72oC		
			33 cycles		
