

Additional file 6. Evaluation if the population is in Hardy-Weinberg equilibrium.

	SNP	HWE		
		Groups	χ^2	p -value
ADH1B	rs1229984 (G $\rightarrow$ A)	Ctrl	3.26	0.07
		FAS	24.0	9.47E-07*
		PAE	0.03	0.86
	rs2066702 (C $\rightarrow$ T)	Ctrl	0.17	0.68
		FAS	0.007	0.93
		PAE	0.14	0.7
ADH1C (γ)	rs698 (A $\rightarrow$ G)	Ctrl	4.48	0.03*
		FAS	0.02	0.90
		PAE	0.09	0.76
	rs1693482 (C $\rightarrow$ T)	Ctrl	20.6	5.77E-06*
		FAS	10.3	0.001*
		PAE	0.25	0.61
ADH4 (π)	rs1126673 (A $\rightarrow$ G)	Ctrl	10.1	0.001*
		FAS	8.6	0.003*
		PAE	5.76	0.02*
	rs1042364 (A $\rightarrow$ G)	Ctrl	0.78	0.38
		FAS	1.41	0.23
		PAE	0.03	0.86
	rs1800759 (A $\rightarrow$ C)	Ctrl	7.50	0.006*
		FAS	0.86	0.35
		PAE	3.64	0.06
	rs1126671 (A $\rightarrow$ G)	Ctrl	5.32	0.02*
		FAS	5.32	0.02*
		PAE	0.24	0.62
	rs29001219 (A $\rightarrow$ G)	Ctrl	0	1
		FAS	0	1
		PAE	0	1

	SNP	HWE		
		Groups	χ^2	p -value
ALDH1	rs8187929 (A $\rightarrow$ T)	Ctrl	0	1
		FAS	0	1
		PAE	0	1
	rs1049981 (G $\rightarrow$ A)	Ctrl	0	1
		FAS	0	1
		PAE	0	1
ALDH2	rs11554423 (G $\rightarrow$ C)	Ctrl	0	1
		FAS	0	1
		PAE	0	1
	rs671 (G $\rightarrow$ A)	Ctrl	0	1
		FAS	0	1
		PAE	0	1
	rs769724893 (G $\rightarrow$ A)	Ctrl	0	1
		FAS	0	1
		PAE	0	1

	SNP	HWE		
		Groups	χ^2	p -value
CYP2E1	rs2031920 (C $\rightarrow$ T)	Ctrl	0	1
		FAS	0	1
		PAE	0	1
	rs3813867 (G $\rightarrow$ C)	Ctrl	0	1
		FAS	0	1
		PAE	0	1
	rs72559710 (G $\rightarrow$ A)	Ctrl	0.01	0.92
		FAS	0	1
		PAE	0	1
	rs6413432 (A $\rightarrow$ T)	Ctrl	0	1
		FAS	0.03	0.86
		PAE	0	1
	rs6413419 (G $\rightarrow$ C)	Ctrl	0.40	0.52
		FAS	0.03	0.86
		PAE	0	1
	rs55897648 (A $\rightarrow$ G)	Ctrl	0	1
		FAS	0	1
		PAE	0	1

HWE (χ^2) represents the value of the analysis of variances, HWE (p) indicates the p-value. The asterisk (*) represents a significance level or p-value ≤ 0.05 .