

Supporting Information

Table S1 Classification results^{a,c} for discrimination of the Chinese Base Liquors from Luzhou Laojiao.

Samples			Predicted group membership					Total
			1	2	3	4	5	
Original	Count	1	7	0	0	0	0	7
		2	0	7	0	0	0	7
		3	0	0	7	0	0	7
		4	0	0	0	7	0	7
		5	0	0	0	0	6	6
		Ungrouped cases	0	0	0	0	1	1
	%	1	100.0	0.0	0.0	0.0	0.0	100.0
		2	0.0	100.0	0.0	0.0	0.0	100.0
		3	0.0	0.0	100.0	0.0	0.0	100.0
		4	0.0	0.0	0.0	100.0	0.0	100.0
		5	0.0	0.0	0.0	0.0	100.0	100.0
		Ungrouped cases	0.0	0.0	0.0	0.0	100.0	100.0
Cross-validated ^b	Count	1	7	0	0	0	0	7
		2	0	7	0	0	0	7
		3	0	0	7	0	0	7
		4	0	0	0	7	0	7
		5	0	0	0	0	6	6
	%	1	100.0	0.0	0.0	0.0	0.0	100.0
		2	0.0	100.0	0.0	0.0	0.0	100.0
		3	0.0	0.0	100.0	0.0	0.0	100.0
		4	0.0	0.0	0.0	100.0	0.0	100.0
		5	0.0	0.0	0.0	0.0	100.0	100.0

^a100% of original grouped cases correctly classified.

^bCross validation is done only for those cases in the analysis. In cross validation, each case is classified by the functions derived from all cases other than that case.

^c100% of cross-validated grouped cases correctly classified.

Table S2 Classification results^{a,c} for Discrimination of the Chinese Liquors with Different Flavor Types.

[illegible]^a100% of original grouped cases correctly classified.

^bCross validation is done only for those cases in the analysis. In cross validation, each case is classified by the functions derived from all cases

^c100% of cross-validated grouped cases correctly classified.

Table S3 Classification results^{a,c} for Discrimination of the Chinese Liquors with Different Flavor Types.

Samples			Predicted group membership								Total
			1	2	3	4	5	6	7	8	
Original	Count	1	7	0	0	0	0	0	0	0	7
		2	0	7	0	0	0	0	0	0	7
		3	0	0	7	0	0	0	0	0	7
		4	0	0	0	7	0	0	0	0	7
		5	0	0	0	0	7	0	0	0	7
		6	0	0	0	0	0	7	0	0	7
		7	0	0	0	0	0	0	7	0	7
		8	0	0	0	0	0	0	0	7	7
	%	1	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
		2	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
		3	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	100.0
		4	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	100.0
		5	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	100.0
		6	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	100.0
		7	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	100.0
		8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
Cross-validated ^b	Count	1	7	0	0	0	0	0	0	0	7
		2	0	7	0	0	0	0	0	0	7
		3	0	0	7	0	0	0	0	0	7
		4	0	0	0	7	0	0	0	0	7
		5	0	0	0	0	7	0	0	0	7
		6	0	0	0	0	0	7	0	0	7
		7	0	0	0	0	0	0	7	0	7
		8	0	0	0	0	0	0	0	7	7
	%	1	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
		2	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
		3	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	100.0
		4	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	100.0
		5	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	100.0
		6	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	100.0
		7	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	100.0
		8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0

^a100% of original grouped cases correctly classified.

^bCross validation is done only for those cases in the analysis. In cross validation, each case is classified by the functions derived from all cases other than that case.

^c100% of cross-validated grouped cases correctly classified.

Reproducibility of the System

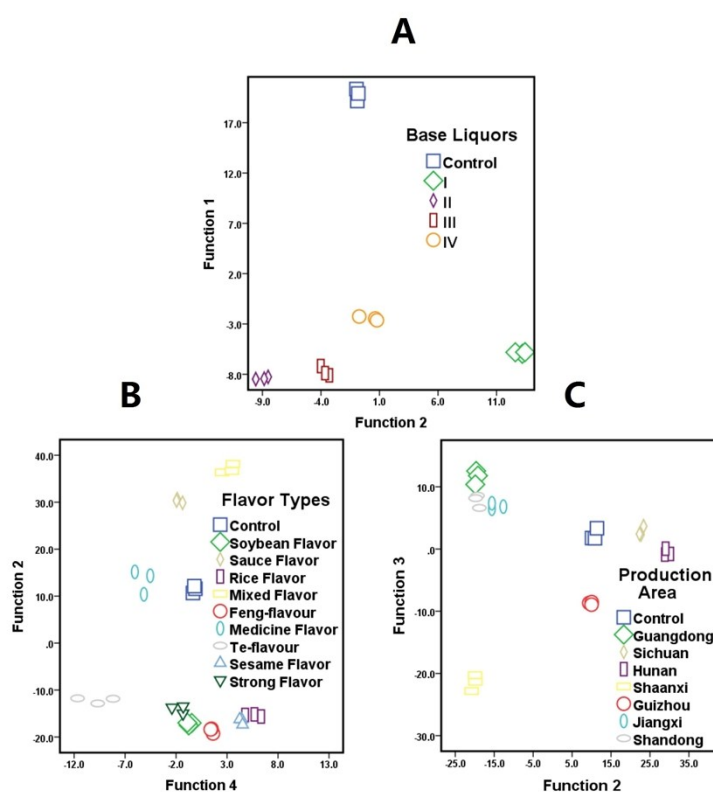


Fig S1. The reproducibility of detection of base liquors (A), different flavor types (B) and different production areas (C). In this work we use average value in 3 tests to do LDA analyse, and the result shows the good reproducibility of the system.