

Supplementary

Table S1 1/2CLIA'88 judgment criteria

Parameters	AT-III	FDP	D-dimer	FIB	TT	PT	APTT
Relative R ²	≥0.95	≥0.95	≥0.95	≥0.95	≥0.95	≥0.95	≥0.95
Relative bias Rb at Xc	≤±10%	≤±10%	≤±10%	≤±10%	≤±10%	≤±7.5%	≤±7.5%

Table S2 Blood test result analysis of Yangpu coagulation tubes and microtubes

Coagulation tubes	APTT (s)	PT (s)	TT (s)	FIB (g/L)	D-dimer (mg/L)	FDP (mg/L)	AT-III (%)
Yangpu coagulation tubes (n=60)	25.27±2.25	12.25±1.27	18.26±2.03	2.78±0.35	0.38±0.11	3.84±0.76	97.58±5.02
Microtubes (n=60)	25.34±2.21	12.30±1.29	18.31±2.04	2.80±0.36	0.39±0.12	3.87±0.72	97.76±5.04
<i>F</i>	0.172	0.214	0.135	0.309	0.476	0.222	0.196
<i>P</i>	0.864	0.831	0.893	0.758	0.635	0.825	0.845

Table S3 Analysis of the consistency of blood test results between Yangpu coagulation tubes and microtubes

Coagulation tubes	Yangpu coagulation tubes													
	APTT		PT		TT		FIB		D-dimer		FDP		AT-III	
	k	P	k	P	k	P	k	P	k	P	k	P	k	P
Microtubes	0.877	<0.05	0.891	<0.05	0.868	<0.05	0.891	<0.05	0.892	<0.05	0.875	<0.05	0.886	<0.05

Table S4 Relative R² of APTT test results between Kangjian microtubes and Gongdong microtubes

Blood collection tubes	Kangjian microtubes	Gongdong microtubes
Relative R ²	0.9687	0.9631
Standard R ²	≥0.95	≥0.95
Conclusion	Met the requirements	Met the requirements

Table S5 Relative bias (Rb) in APTT test results between Kangjian microtubes and Gongdong microtubes

Blood collection tubes	Kangjian microtubes	Gongdong microtubes
Intercept of linear fit a	-0.2912	-1.1041
Slope of linear fit b	0.9899	1.0083
Relative bias Rb at Xc	45 s: -1.66% 60 s: -1.50%	45 s: -1.62% 60 s: -1.01%
Standard Rb	≤±7.5%	≤±7.5%
Conclusion	Met the requirements	Met the requirements

Table S6 Relative R² of PT test results between Kangjian microtubes and Gongdong microtubes

Blood collection tubes	Kangjian microtubes	Gongdong microtubes
Relative R ²	0.9843	0.9757
Standard R ²	≥0.95	≥0.95
Conclusion	Met the requirements	Met the requirements

Table S7 Relative bias (Rb) in PT test results between Kangjian microtubes and Gongdong microtubes

Blood collection tubes	Kangjian microtubes	Gongdong microtubes
Intercept of linear fit a	0.2152	-0.2614
Slope of linear fit b	0.9776	0.9869
Relative bias Rb at Xc	20 s: -1.16% 30 s: -1.52%	20 s: -2.62% 30 s: -2.18%
Standard Rb	≤±7.5%	≤±7.5%
Conclusion	Met the requirements	Met the requirements

Table S8 Relative R² of TT test results between Kangjian microtubes and Gongdong microtubes

Blood collection tubes	Kangjian microtubes	Gongdong microtubes
Relative R ²	0.9821	0.9684
Standard R ²	≥0.95	≥0.95
Conclusion	Met the requirements	Met the requirements

Table S9 Relative bias (Rb) in TT test results between Kangjian microtubes and Gongdong microtubes

Blood collection tubes	Kangjian microtubes	Gongdong microtubes
Intercept of linear fit a	-0.4403	0.3890
Slope of linear fit b	1.0146	0.9830
Relative bias Rb at Xc	31 s: 0.04%	31 s: -0.45%
Standard Rb	≤±10%	≤±10%
Conclusion	Met the requirements	Met the requirements

Table S10 Relative R² of FIB test results between Kangjian microtubes and Gongdong microtubes

Blood collection tubes	Kangjian microtubes	Gongdong microtubes
Relative R ²	0.9825	0.9907
Standard R ²	≥0.95	≥0.95
Conclusion	Met the requirements	Met the requirements

Table S11 Relative bias (Rb) in FIB test results between Kangjian microtubes and Gongdong microtubes

Blood collection tubes	Kangjian microtubes	Gongdong microtubes
Intercept of linear fit a	0.0611	0.0175
Slope of linear fit b	1.022	1.0445
Relative bias Rb at Xc	1.5 g/L: 6.27%	1.5 g/L: 5.62%
	5 g/L: 3.42%	5 g/L: 4.80%
Standard Rb	$\leq \pm 10\%$	$\leq \pm 10\%$
Conclusion	Met the requirements	Met the requirements

Table S12 Relative R² of D-dimer test results between Kangjian microtubes and Gongdong microtubes

Blood collection tubes	Kangjian microtubes	Gongdong microtubes
Relative R ²	0.9957	0.9965
Standard R ²	≥ 0.95	≥ 0.95
Conclusion	Met the requirements	Met the requirements

Table S13 Relative bias (Rb) in D-dimer test results between Kangjian microtubes and Gongdong microtubes

Blood collection tubes	Kangjian microtubes	Gongdong microtubes
Intercept of linear fit a	0.0591	-0.0206
Slope of linear fit b	1.0077	1.0902
Relative bias Rb at Xc	1.5 mg/L: 4.71%	1.5 mg/L: 7.65%
Standard Rb	$\leq \pm 10\%$	$\leq \pm 10\%$
Conclusion	Met the requirements	Met the requirements

Table S14 Relative R² of FDP test results between Kangjian microtubes and Gongdong microtubes

Blood collection tubes	Kangjian microtubes	Gongdong microtubes
Relative R ²	0.9974	0.9957
Standard R ²	≥ 0.95	≥ 0.95
Conclusion	Met the requirements	Met the requirements

Table S15 Relative bias (Rb) of FDP test results between Kangjian microtubes and Gongdong microtubes

Blood collection tubes	Kangjian microtubes	Gongdong microtubes
Intercept of linear fit a	-0.0139	-0.0304
Slope of linear fit b	1.0384	1.0558
Relative bias Rb at Xc	20 mg/L: 3.77%	20 mg/L: 5.43%
	40 mg/L: 3.81%	40 mg/L: 5.50%
Standard Rb	$\leq \pm 10\%$	$\leq \pm 10\%$
Conclusion	Met the requirements	Met the requirements

Table S16 Relative R² of AT-III test results of Kangjian microtubes and Gongdong microtubes

Blood collection tubes	Kangjian microtubes	Gongdong microtubes
Relative R ²	0.9836	0.9627
Standard R ²	≥0.95	≥0.95
Conclusion	Met the requirements	Met the requirements

Table S17 Relative bias (Rb) comparison in AT-III test results between Kangjian microtubes and Gongdong microtubes

Blood collection tubes	Kangjian microtubes	Gongdong microtubes
Intercept of linear fit a	-0.6101	0.6238
Slope of linear fit b	1.0573	1.0251
Relative bias Rb at Xc	35: 3.99%	35: 4.29%
	80: 4.97%	80: 3.29%
	120: 5.22%	120: 3.03%
Standard Rb	≤±10%	≤±10%
Conclusion	Meet the requirements	Meet the requirements