

Supplementary Table 1 Comparison of the detection accuracy of tNGS, mNGS, and Xpert MTB/RIF.

Method	Sensitivity (%) (95% CI)	Specificity (%) (95% CI)	PPV	NPV	Agreement rate	χ^2	<i>P</i> value	Kappa
tNGS	68.13(62/91) (0.58-0.78)	96.67(29/30) (0.83-1.00)	98.41 (62/63)	50.00 (29/58)	75.21(91/121)	37.959	<0.01	0.494
mNGS	58.24(53/91) (0.47-0.68)	93.33(28/30) (0.78-0.99)	96.36 (53/55)	42.42 (28/66)	66.94(81/121)	24.206	<0.01	0.368
Xpert MTBC/RIF	67.03 (61/91) (0.56-0.77)	100.00(30/30) (0.88-1)	100.00 (61/61)	50.00 (30/60)	75.21(91/121)	40.555	<0.01	0.502

The *P* value was calculated using Pearson's chi-squared test to assess the association between the test result and the final clinical diagnosis; *P* < 0.01 was considered statistically significant.

Supplementary Table 2 Comparison of BALF samples that were positive for TB by tNGS or Xpert MTB/RIF.

tNGS	Xpert MTBC/RIF		Total	<i>P</i> value	Kappa
	Positive	Negative			
Positive	57	6	63	0.752	0.835
Negative	4	54	58		
Total	61	60	121		

The *P* value was calculated using McNemar's test; *P* < 0.05 was considered statistically significant.