Table S1. Tick species, quantity, and vertebrate hosts in different sampling sites, Yunnan Province.

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| Location | Host | Tick species and quantity |
| Ruili City, Dehong Prefecture | goat | 30 *Rhipicephalus haemaphysaloides* |
| cattle | 1 *Rhipicephalus haemaphysaloides* |
| cattle | 97 *Rhipicephalus microplus* |
| Zhaoyang District, Zhaotong City | goat | 136 *Rhipicephalus microplus* |
| cattle | 60 *Rhipicephalus microplus* |
| Shiping County, Honghe City | goat | 5 *Rhipicephalus haemaphysaloides* |
| goat | 15 *Rhipicephalus microplus* |
| cattle | 2 *Rhipicephalus haemaphysaloides* |
| cattle | 88 *Rhipicephalus microplus* |