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All authors contributed to the study conception and design. Methodology, investigation, and supervision were performed by Fangze Li; Methods and analysis of soil microbial detection were performed by Tianqi Qi, Ge Zhang and Shiwei Zhang. Field trials were designed, analyzed and tested by Xiaohua Li, Xingjie Lin, Fangze Li, Zhengding Wu, Zhanbin Huang and Hongchao Liu. Soil physical properties were performed by Shuhui Meng and Fangze Li. Soil chemical properties were performed by Hongchao Liu, Ge Zhang and Xiaohua Li. The first draft of the manuscript was written by Fangze Li, Xingjie Lin and Zhanbin Huang and all authors commented on previous versions of the manuscript. The revision of paper was performed by Fangze Li, Xingjie Lin, Zhanbin Huang and Hongchao Liu. All authors read and approved the final manuscript.

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