

*Supplementary Materials*

# **CaAl-Layered Double Hydroxides-Modified Biochar Composites Mitigate the Toxic Effects of Cu and Pb in Soil on Pea Seedlings**

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**Table S1.** The main experimental drugs.

|   | <b>Drug</b>   | <b>Manufacturer</b>                      |
|---|---|--|
| 1 | Al (NO <sub>3</sub> ) <sub>3</sub> ·9H <sub>2</sub> O | Guangzhou Chemical Reagent<br>Factory    |
| 2 | Ca (NO <sub>3</sub> ) <sub>2</sub> ·4H <sub>2</sub> O | Sinopharm Chemical Reagent<br>(Shanghai) |
| 3 | NaOH  | Guangzhou Chemical Reagent<br>Factory    |

### **Section S2. 16S rRNA sequencing specific processes**

16S rRNA sequencing specific processes: Shenzhen Micro Science Alliance Technology Group Co., Ltd is responsible for completing the work of DNA extraction, PCR amplification, library construction, and sequencing, as well as data analysis, in which the sample DNA was extracted using the CTAB method, The PCR product was recovered using the Universal DNA (TianGen, China) Purification and Recovery Kit. The library was constructed using the NEB Next® Ultra DNA Library Prep Kit, and the constructed library was detected and quantified by Q-PCR using Agilent 5400. After the library was qualified, it was sequenced using the Illumina sequencing platform.